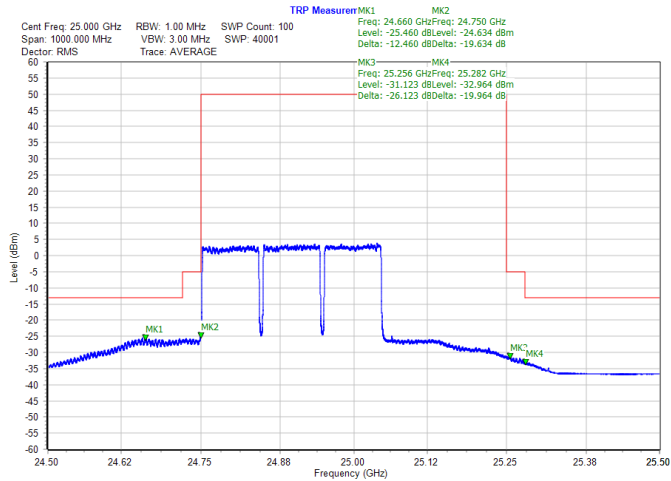




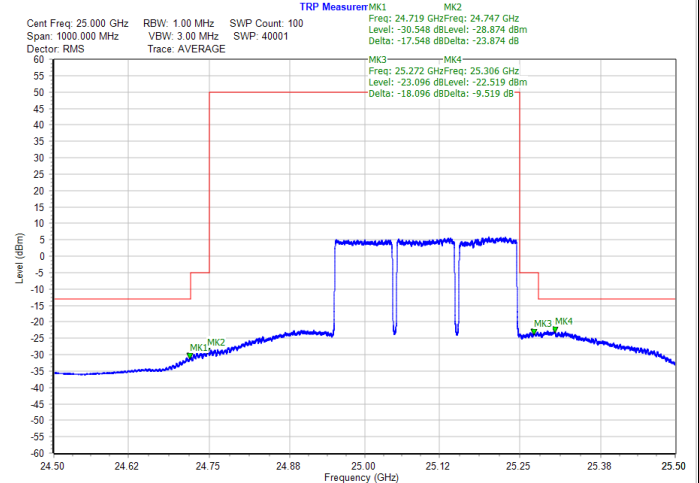
DFT-s-OFDM Module 1

NR Band n258B / 300MHz / 16QAM

Lowest Band Edge / Full RB

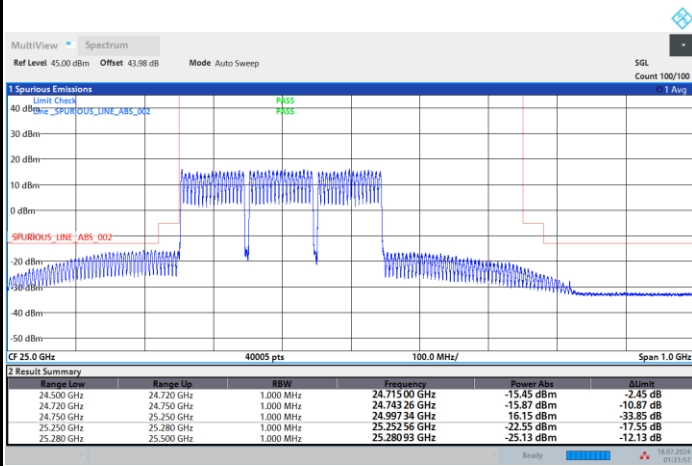


Highest Band Edge / Full RB



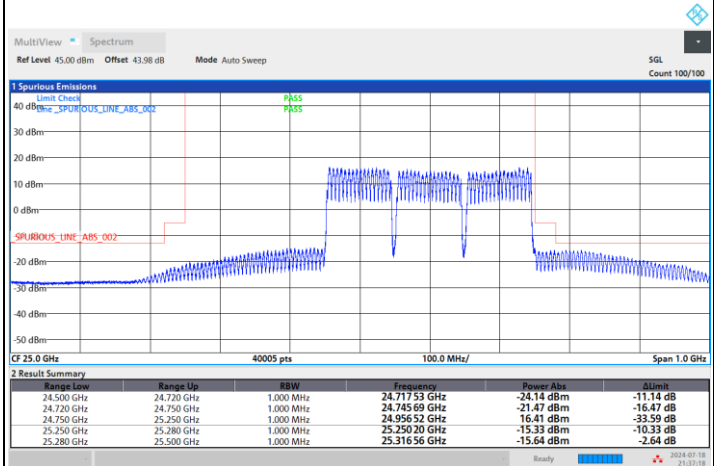
NR Band n258B / 300MHz / 64QAM

Lowest Band Edge / Full RB

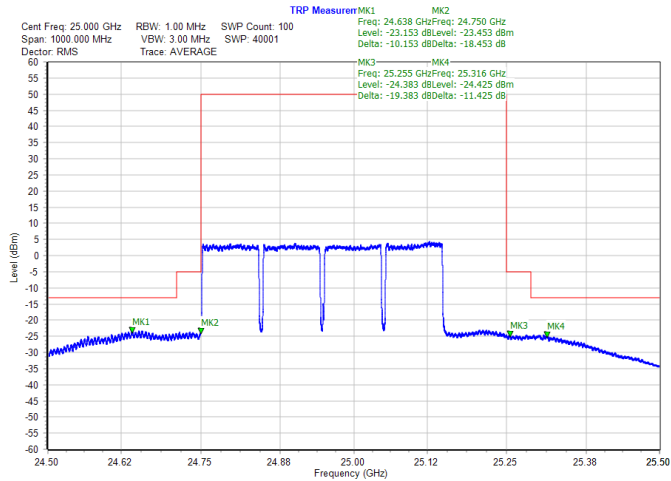
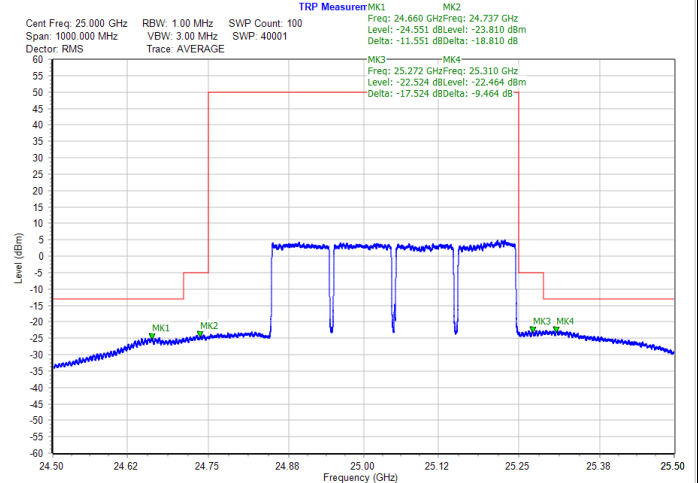
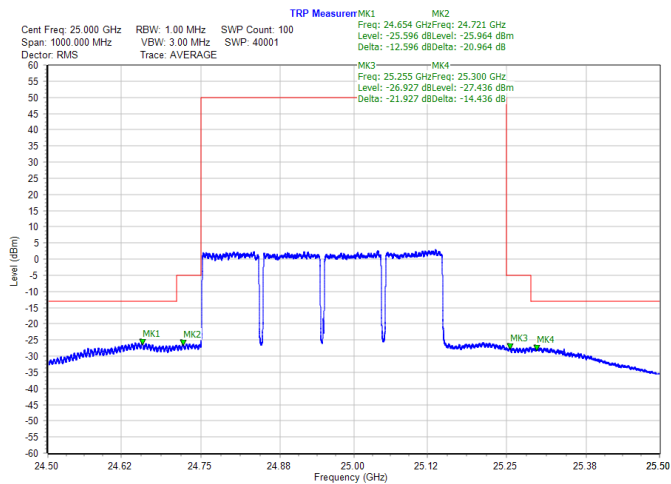
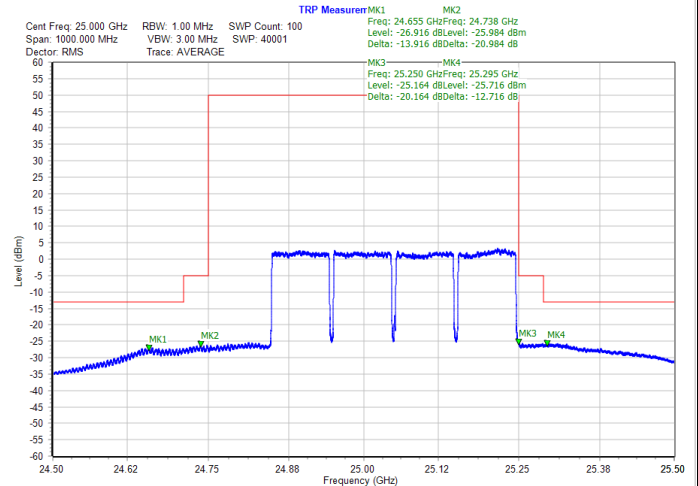


01:31:57 18.07.2024

Highest Band Edge / Full RB



09:37:18 07/18/2024

**DFT-s-OFDM Module 1****NR Band n258B / 400MHz / QPSK****Lowest Band Edge / Full RB****Highest Band Edge / Full RB****NR Band n258B / 400MHz / 16QAM****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**

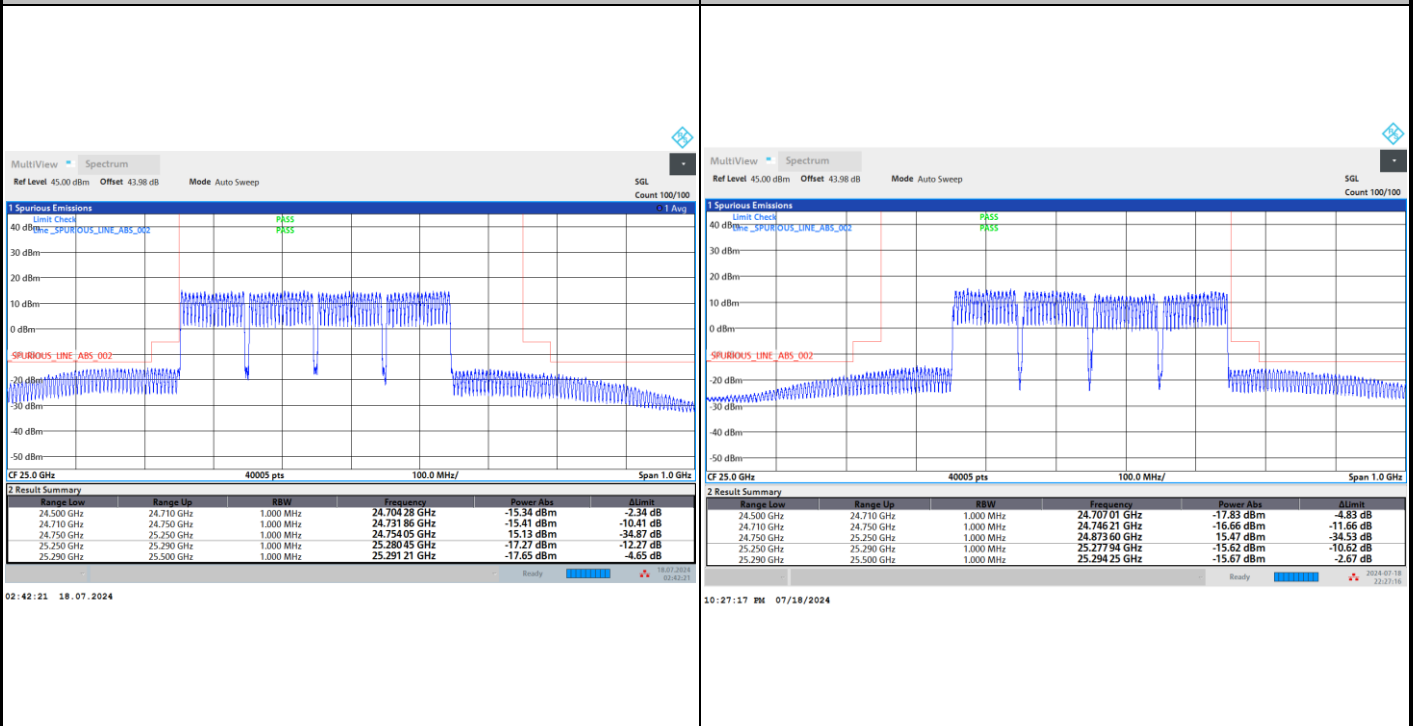


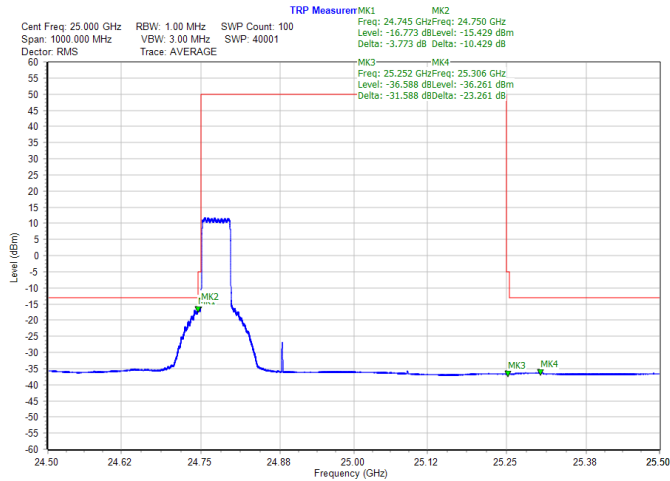
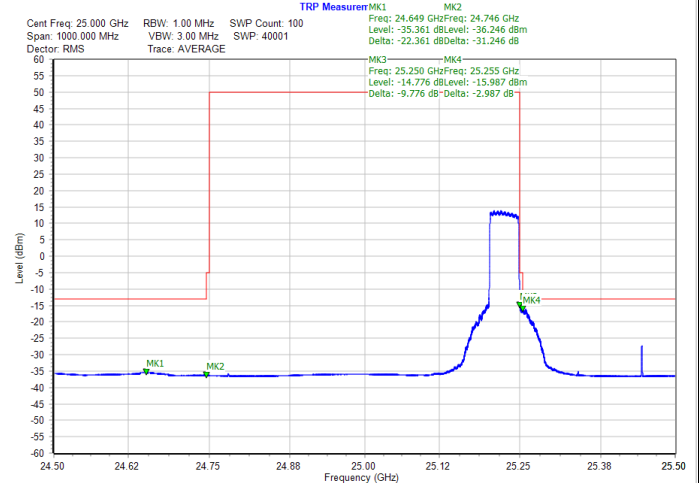
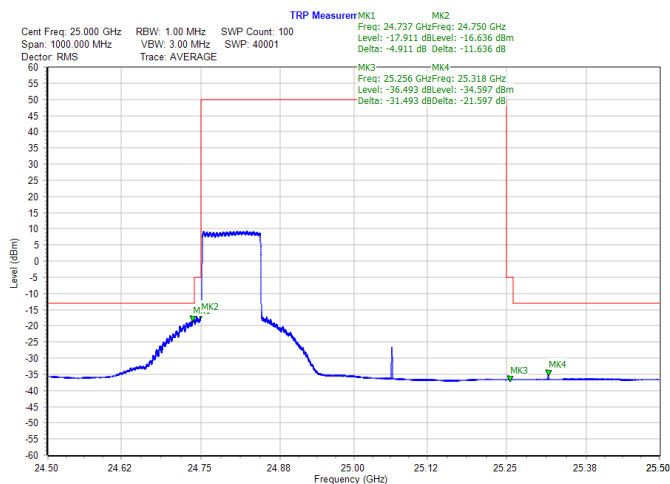
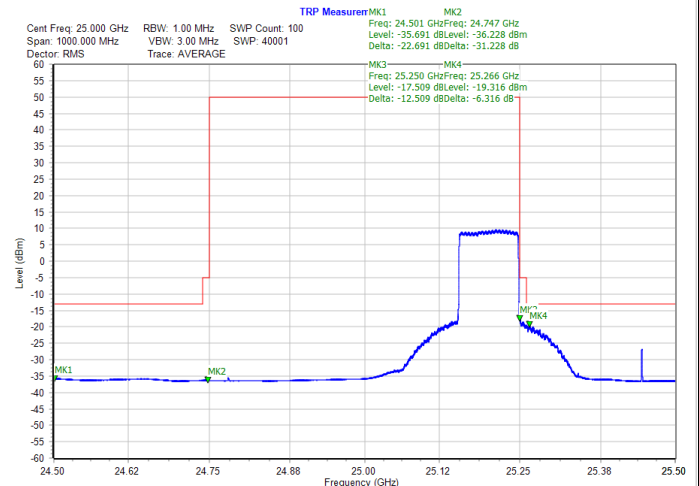
DFT-s-OFDM Module 1

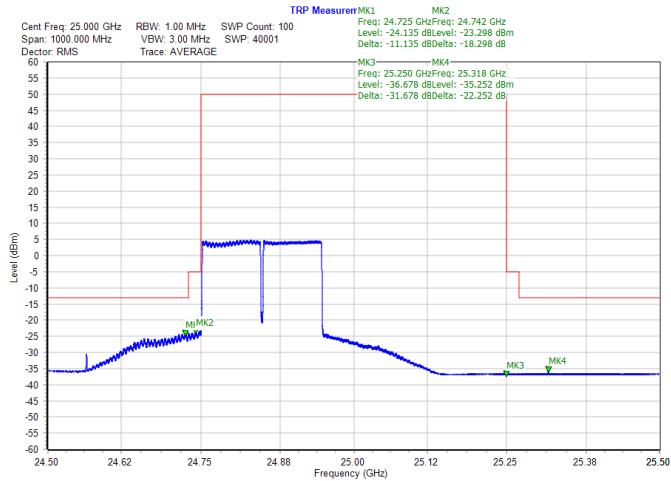
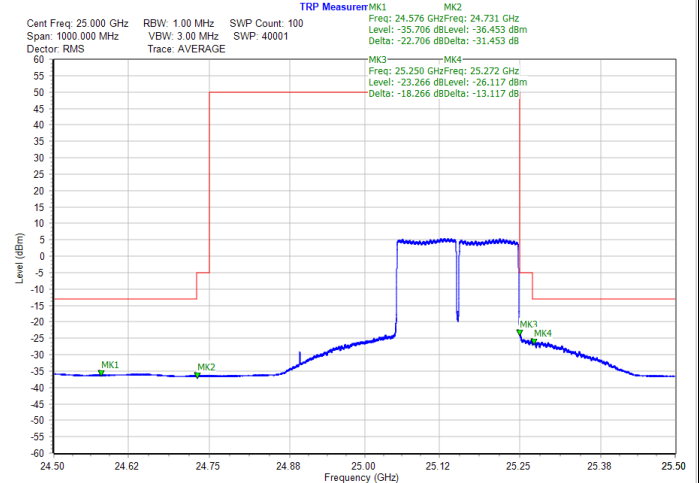
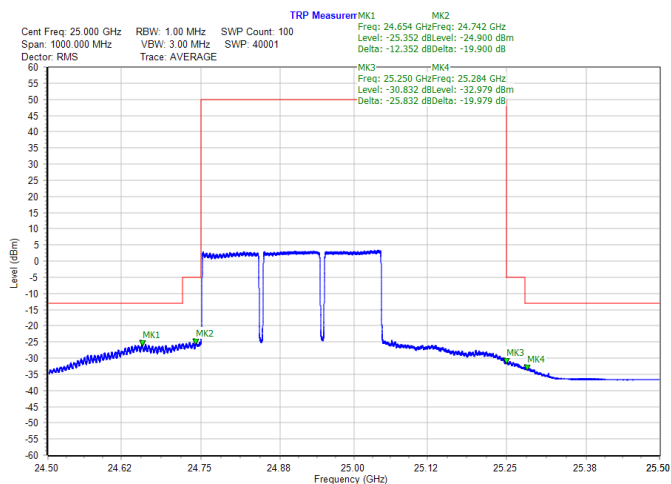
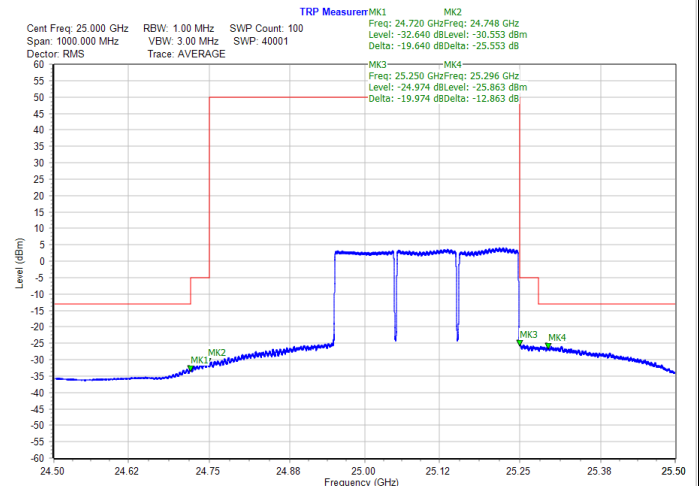
NR Band n258B / 400MHz / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



CP-OFDM Module 1
NR Band n258B / 50MHz / QPSK
Lowest Band Edge / Full RB

Highest Band Edge / Full RB

NR Band n258B / 100MHz / QPSK
Lowest Band Edge / Full RB

Highest Band Edge / Full RB


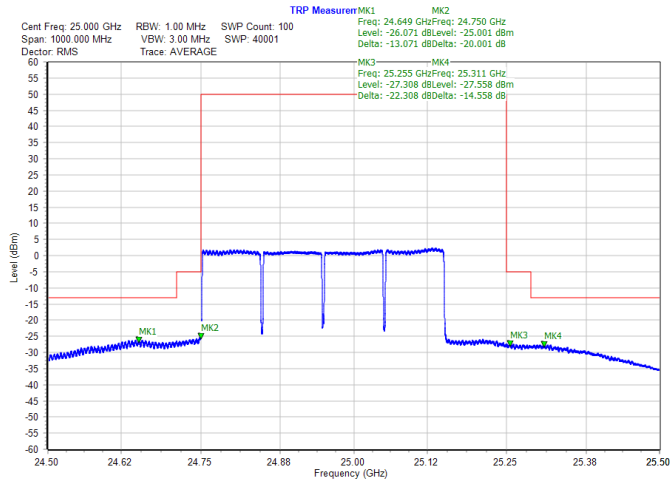
**CP-OFDM Module 1****NR Band n258B / 200MHz / QPSK****Lowest Band Edge / Full RB****Highest Band Edge / Full RB****NR Band n258B / 300MHz / QPSK****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**



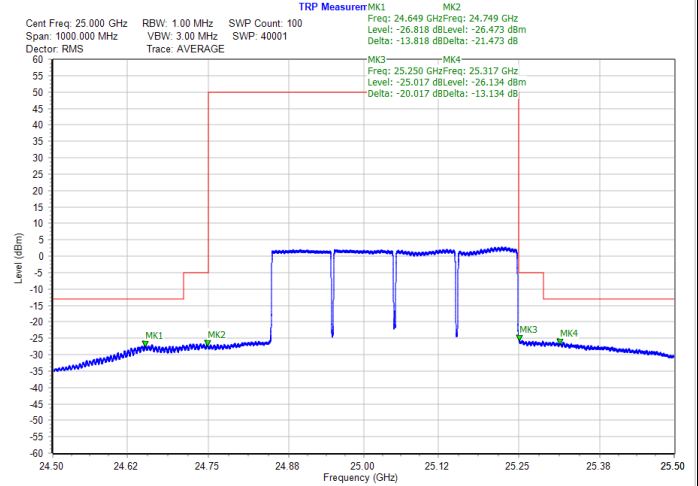
CP-OFDM Module 1

NR Band n258B / 400MHz / QPSK

Lowest Band Edge / Full RB

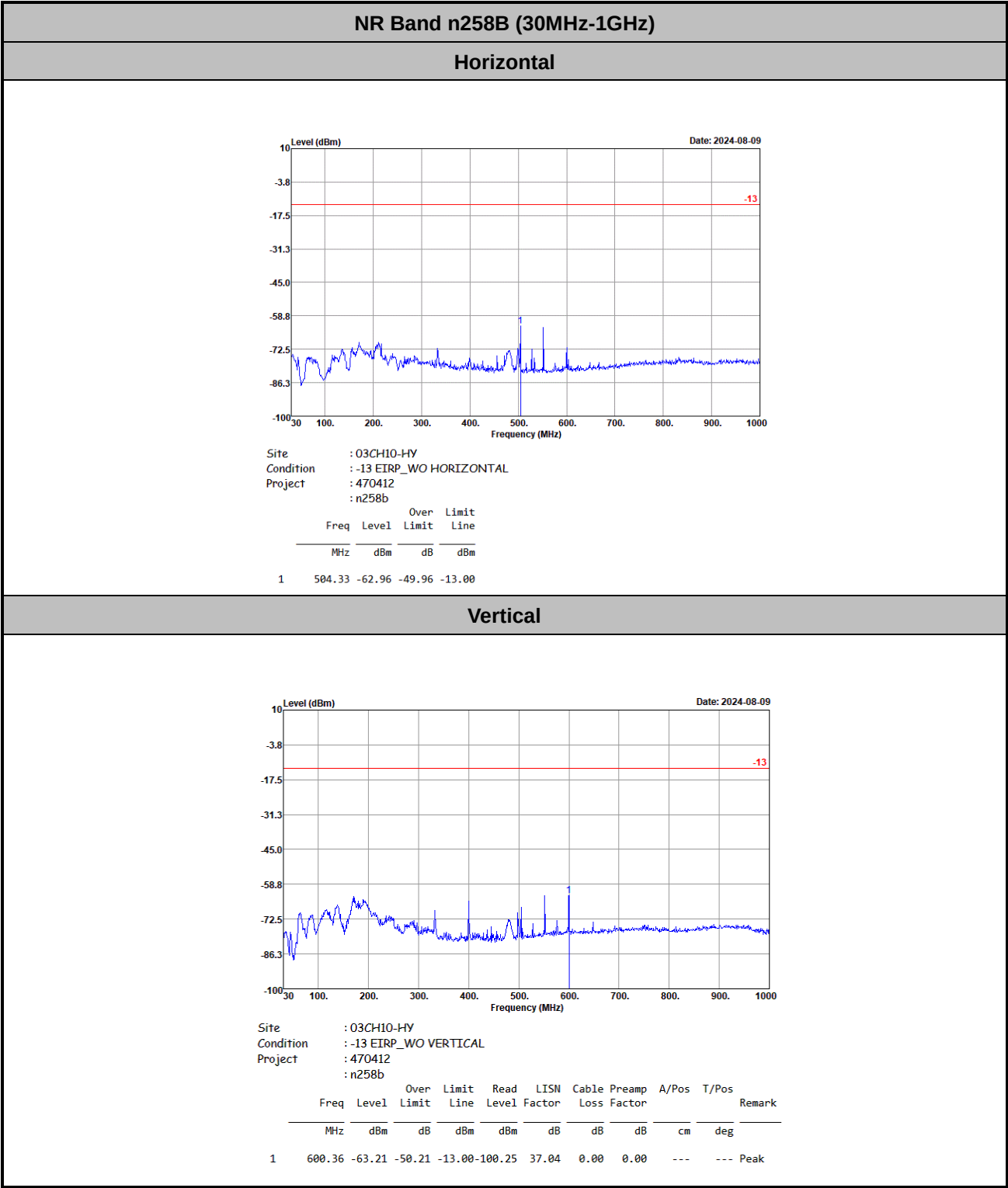


Highest Band Edge / Full RB





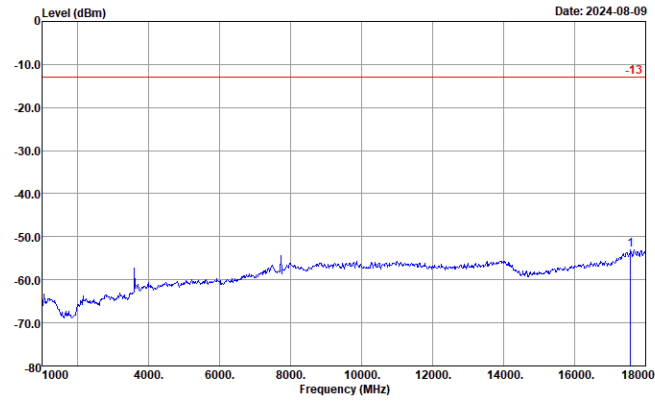
Spurious Emission





NR Band n258B (1GHz-18GHz)

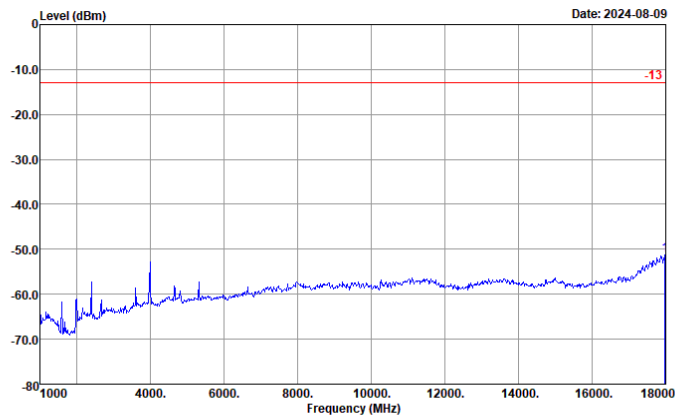
Horizontal



Site : 03CH10-HY
Condition : -13 EIRP_WO HORIZONTAL
Project : 470412
: n258b

	Freq	Level	Over	Limit	Read	LISN	Cable	Preamp	A/Pos	T/Pos	Remark
	MHz	dBm	Limit	Line	Level	Factor	Loss	Factor			
			dB	dBm	dBm	dB	dB	dB	cm	deg	
1	17575.00	-52.98	-39.98	-13.00	-67.04	72.65	0.00	58.59	---	---	Peak

Vertical



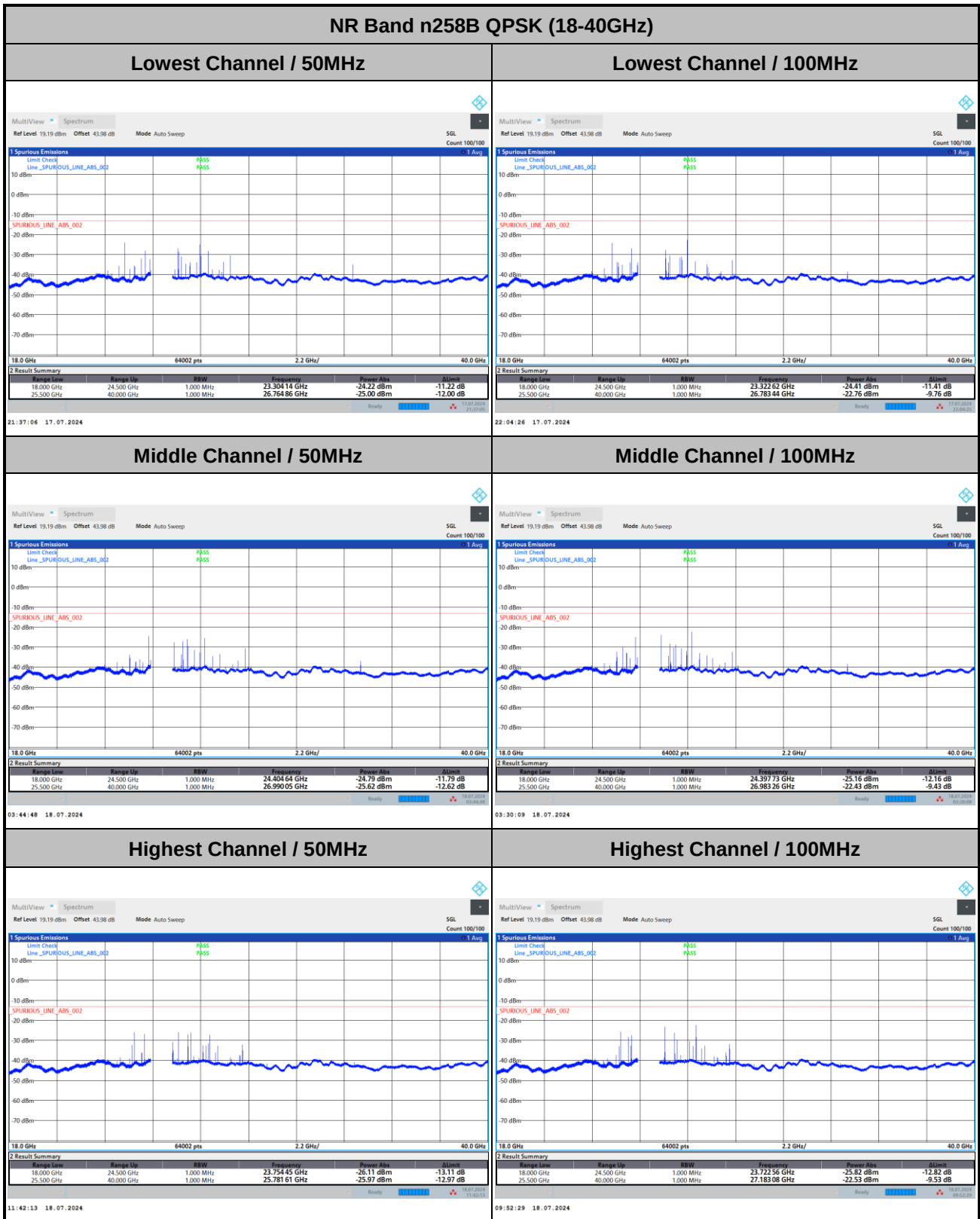
Site : 03CH10-HY
Condition : -13 EIRP_WO VERTICAL
Project : 470412
: n258b

	Freq	Level	Over	Limit	Read	LISN	Cable	Preamp	A/Pos	T/Pos	Remark
	MHz	dBm	Limit	Line	Level	Factor	Loss	Factor			
			dB	dBm	dBm	dB	dB	dB	cm	deg	
1	17983.00	-51.14	-38.14	-13.00	-68.69	75.78	0.00	58.23	---	---	Peak



Spurious emission between 18GHz to 40GHz worst case plot is reported as following.

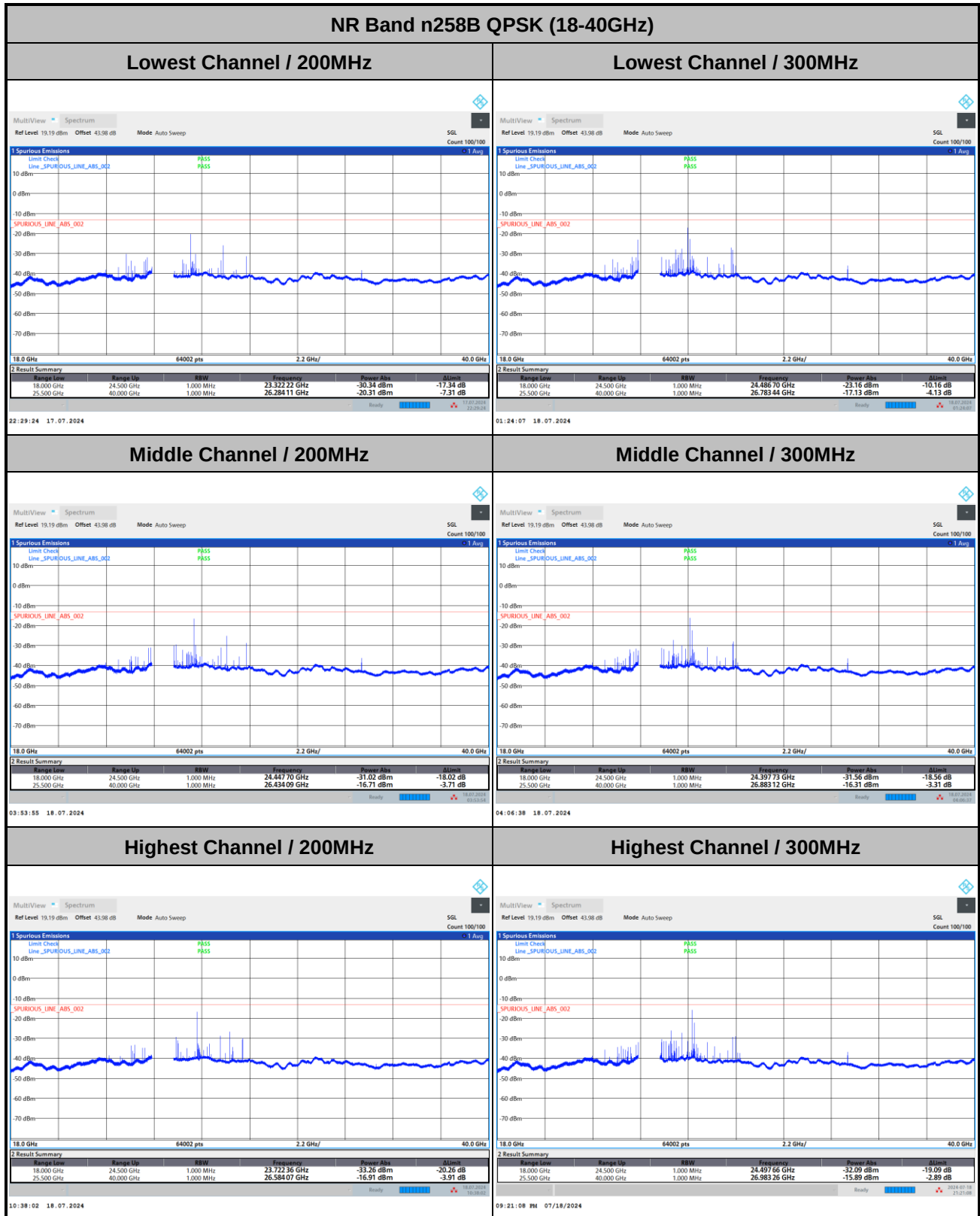
DFT-s-OFDM Module 1



Remark: In band and out of band frequencies are omitted.



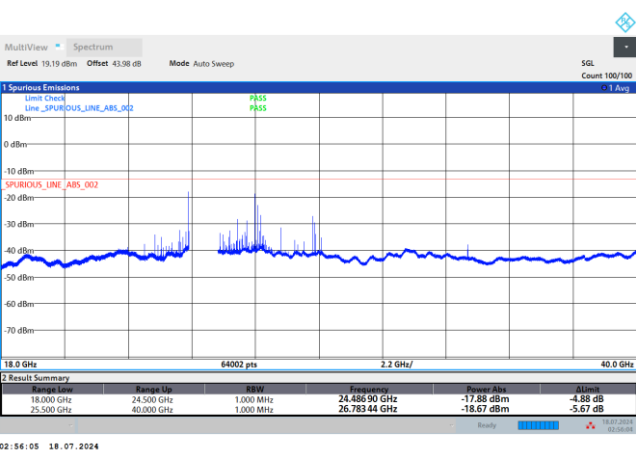
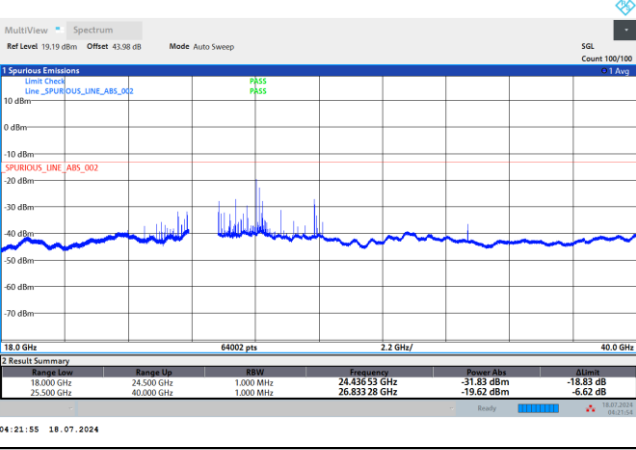
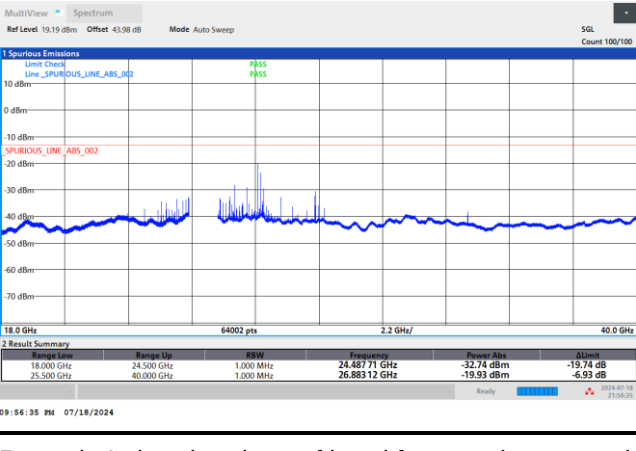
DFT-s-OFDM Module 1



Remark: In band and out of band frequencies are omitted.



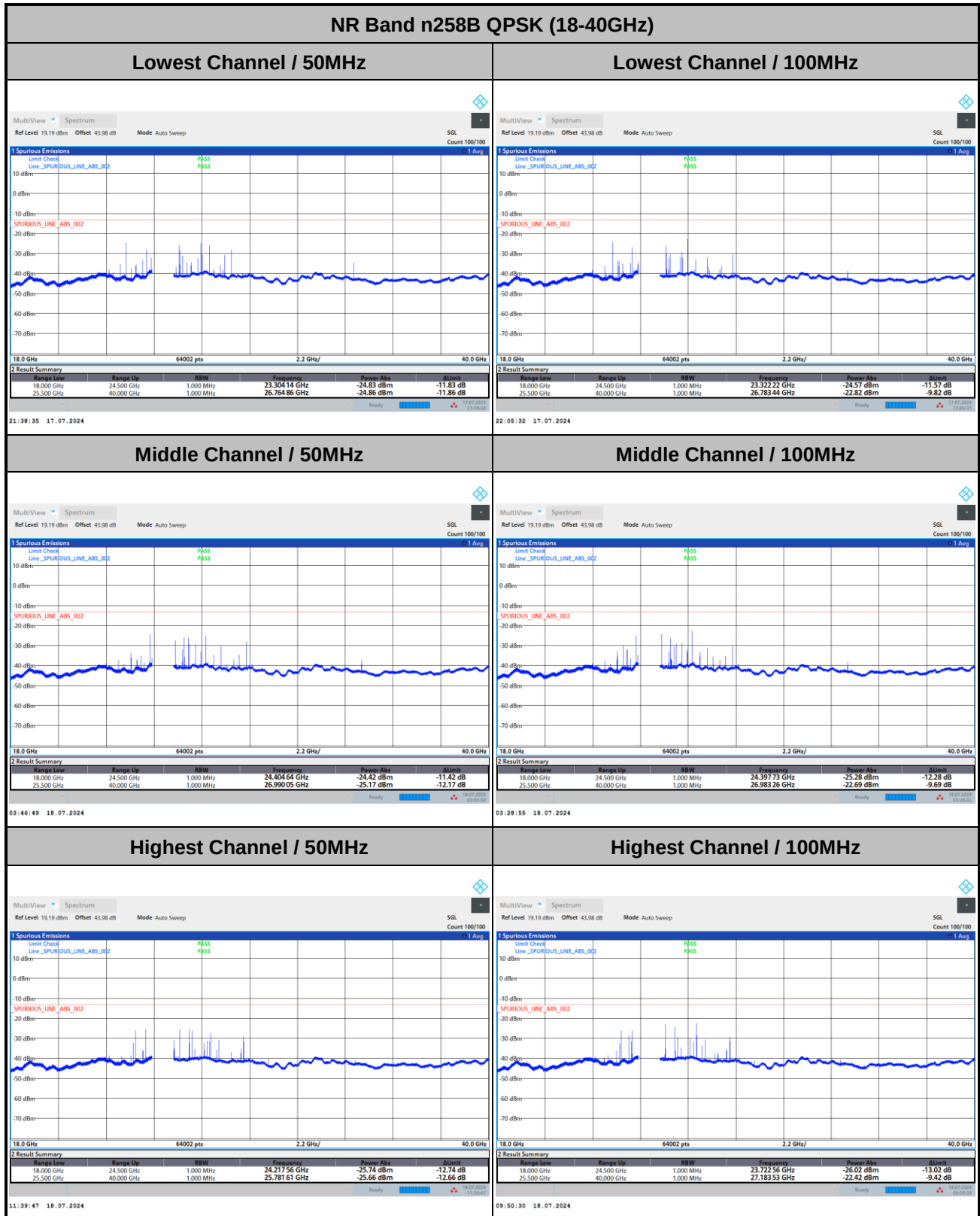
DFT-s-OFDM Module 1

NR Band n258B QPSK (18-40GHz)	
Lowest Channel / 400MHz	
	intentionally blank
Middle Channel / 400MHz	
	intentionally blank
Highest Channel / 400MHz	
	intentionally blank

Remark: In band and out of band frequencies are omitted.



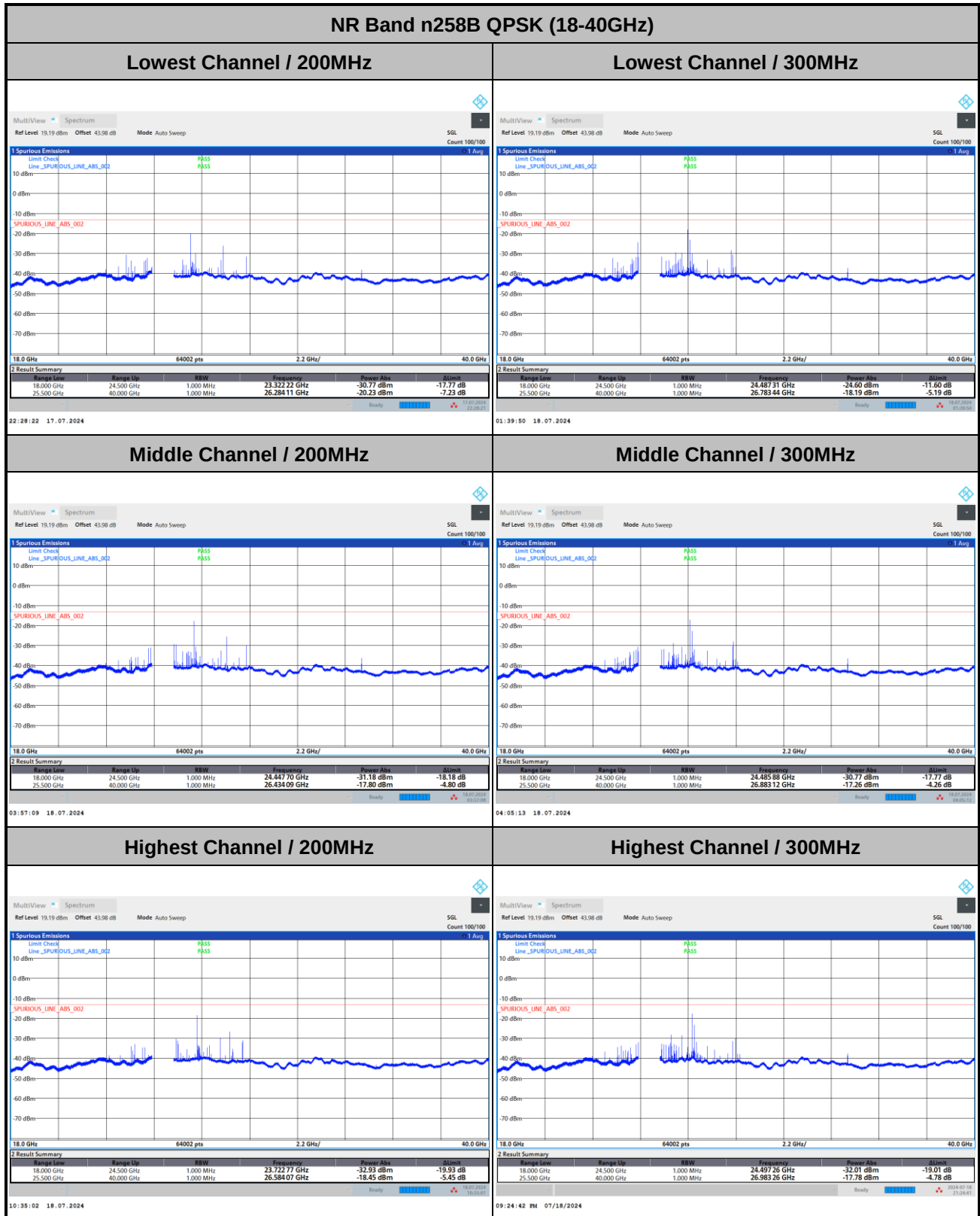
CP-OFDM Module 1



Remark: In band and out of band frequencies are omitted.



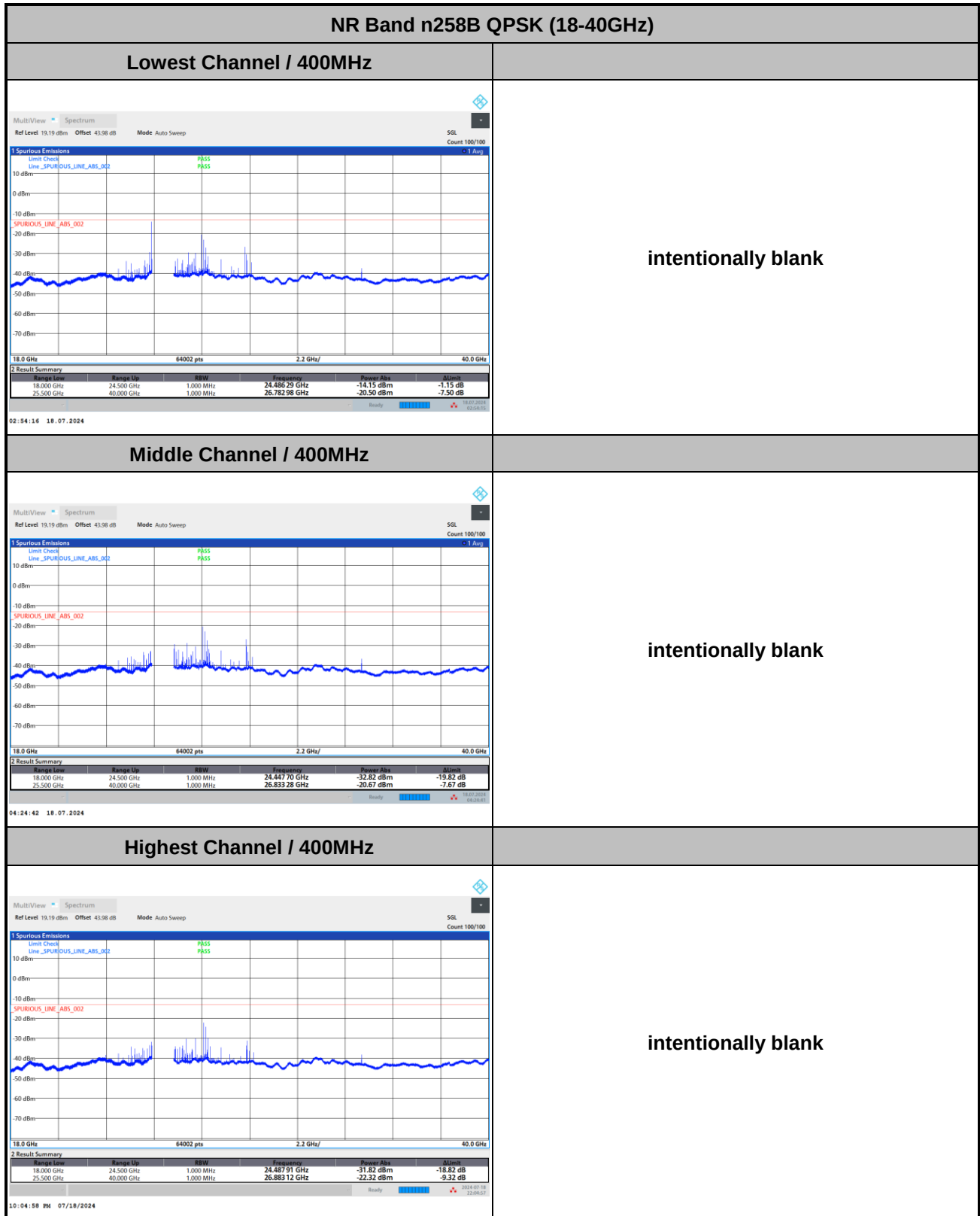
CP-OFDM Module 1



Remark: In band and out of band frequencies are omitted.

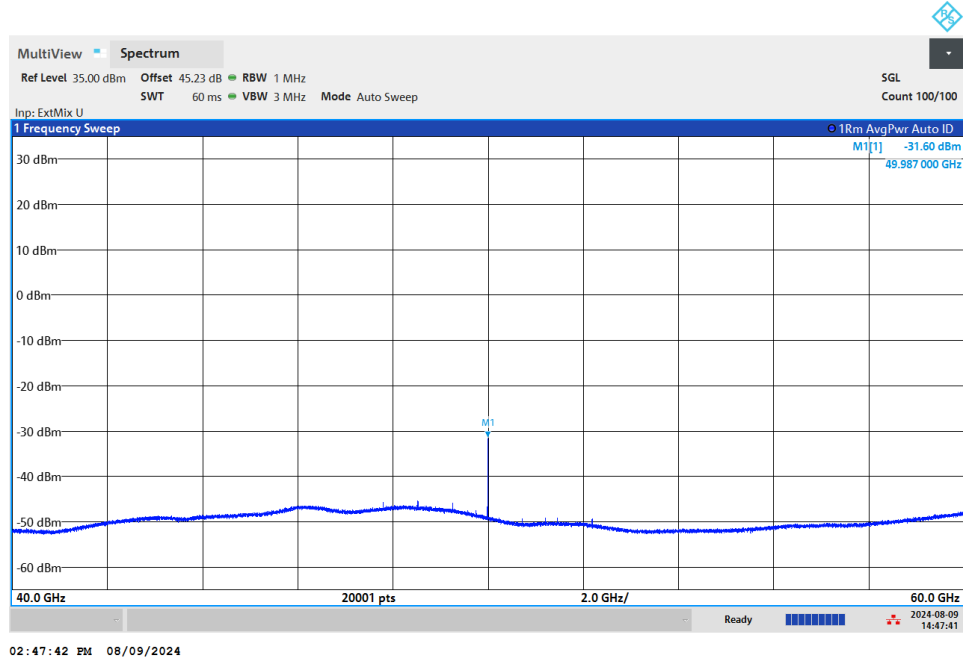


CP-OFDM Module 1

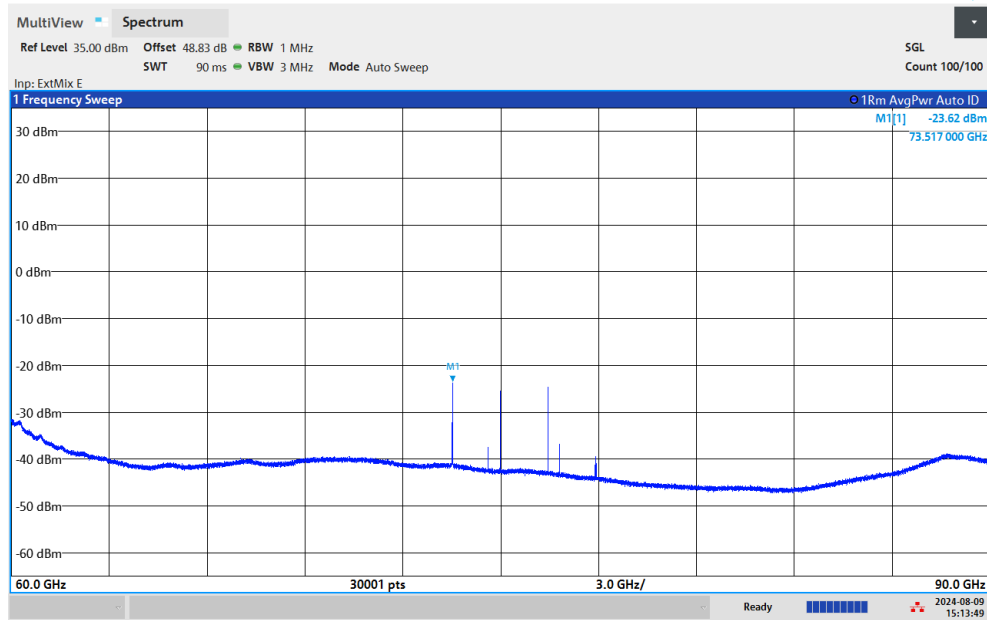


Remark: In band and out of band frequencies are omitted.

There is no significant spurious emission signal found for frequency started from 40GHz up to 200GHz.

NR Band n258B
(40GHz-60GHz)


$$\begin{aligned} \text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 \\ &= 42.6 + 0.43 + 107 + 20\log(1) - 104.8 = 45.23(\text{dB}) \end{aligned}$$

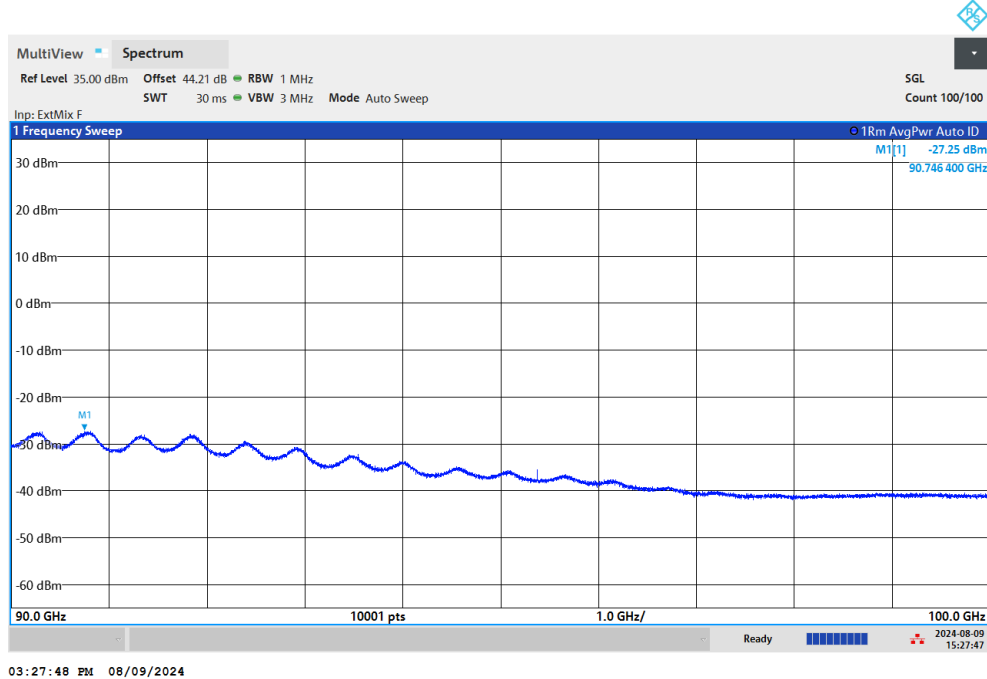
NR Band n258B
(60GHz-90GHz)


$$\text{Offset} = \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8$$

$$= 46.2 + 0.43 + 107 + 20\log(1) - 104.8 = 48.83 \text{ (dB)}$$

NR Band n258B

(90GHz-100GHz)



$$\text{Offset} = \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8$$

$$= 47.6 + 0.43 + 107 + 20\log(0.5) - 104.8 = 44.21 \text{ (dB)}$$

Frequency Stability

Test Conditions		NR Band n258B / Middle Channel			Limit
Temperature (°C)	Voltage (Volt)	CW tone			Note 2.
		Frequency (GHz)	Deviation (kHz)	Deviation (ppm)	Result
50	Normal Voltage	24.9999031	59.900	2.396	Pass
40	Normal Voltage	24.9998791	83.900	3.356	
30	Normal Voltage	24.9998731	89.900	3.596	
20(Ref.)	Normal Voltage	24.999963	0.000	0.000	
10	Normal Voltage	24.9998721	90.900	3.636	
0	Normal Voltage	24.9998891	73.900	2.956	
-10	Normal Voltage	24.9999081	54.900	2.196	
-20	Normal Voltage	24.9999351	27.900	1.116	
-30	Normal Voltage	24.9999271	35.900	1.436	
20	Maximum Voltage	24.999959	4.000	0.160	
20	Normal Voltage	24.999955	8.000	0.320	
20	Battery End Point	24.999951	12.000	0.480	

Note:

1. Normal Voltage = 56 V. ; Battery End Point (BEP) = 47.6 V. ; Maximum Voltage = 64.4 V.
2. The frequency fundamental emissions stay within the operation band.

NR Band n260 AG0+1

Occupied Bandwidth

Mode	DFT-s-OFDM Module 1 NR Band n260 : 99%OBW(MHz)								
BW	50MHz			100MHz			200MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	44.57	44.58	44.35	91.80	91.77	91.63	188.66	188.38	188.81
Middle CH	46.06	46.33	45.99	91.63	90.02	90.24	188.90	188.70	188.97
Highest CH	45.22	45.46	45.07	90.68	90.26	90.20	188.58	188.51	188.68

Mode	DFT-s-OFDM Module 1 NR Band n260 : 99%OBW(MHz)					
BW	300MHz			400MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	287.35	287.43	287.84	387.71	386.08	386.82
Middle CH	287.70	287.16	287.54	387.38	387.36	386.58
Highest CH	289.52	289.48	289.25	389.58	388.98	390.10

Mode	CP-OFDM Module 1 NR Band n260 : 99%OBW(MHz)		
BW	50MHz	100MHz	200MHz
Mod.	QPSK	QPSK	QPSK
Lowest CH	46.25	92.99	192.91
Middle CH	46.29	92.77	193.05
Highest CH	45.23	94.37	193.08

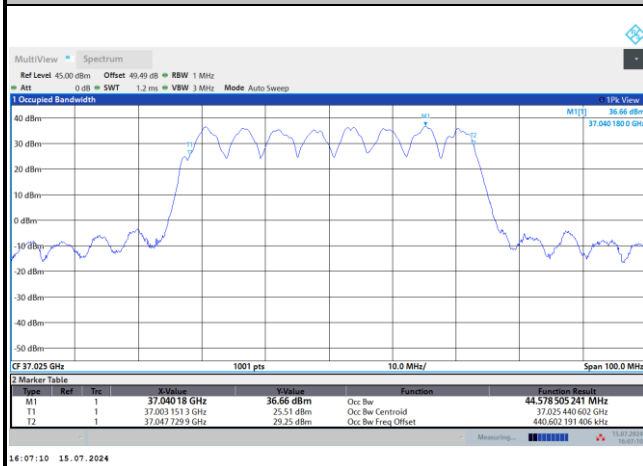
Mode	CP-OFDM Module 1 NR Band n260 : 99%OBW(MHz)	
BW	300MHz	400MHz
Mod.	QPSK	QPSK
Lowest CH	290.33	389.88
Middle CH	290.17	389.25
Highest CH	291.76	391.55



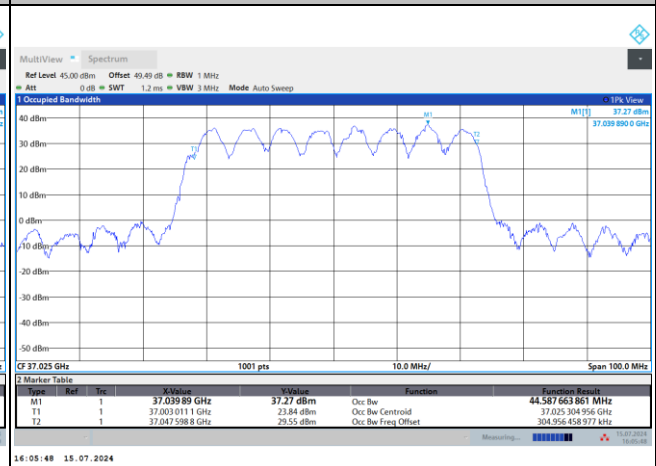
DFT-s-OFDM Module 1

NR Band n260

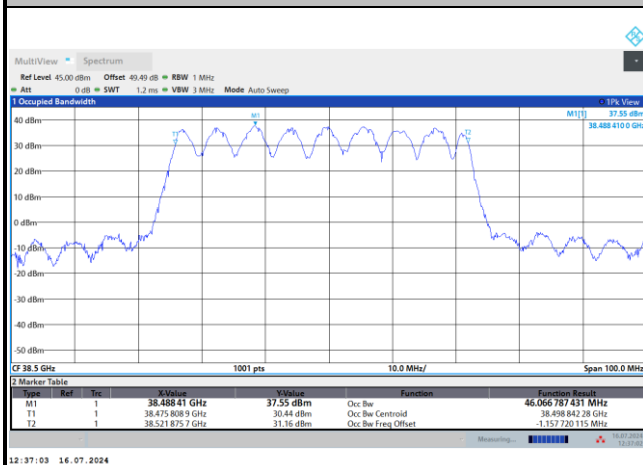
Lowest Channel / 50MHz / QPSK



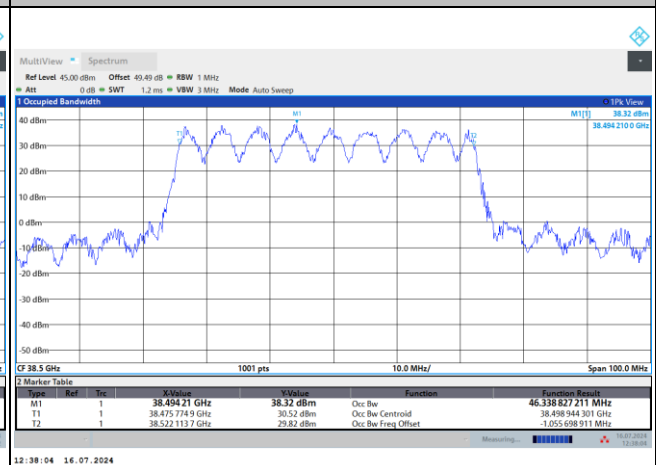
Lowest Channel / 50MHz / 16QAM



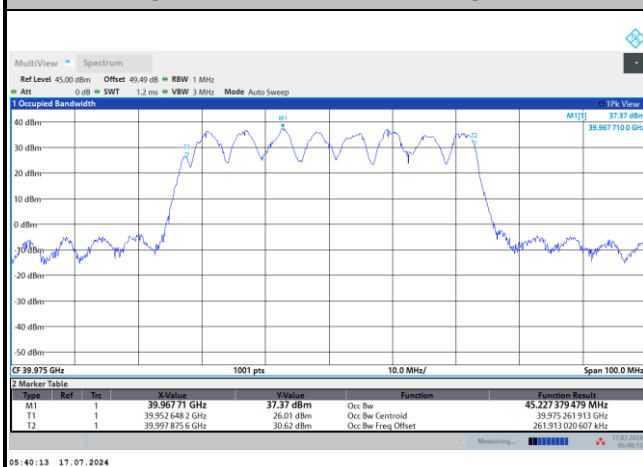
Middle Channel / 50MHz / QPSK



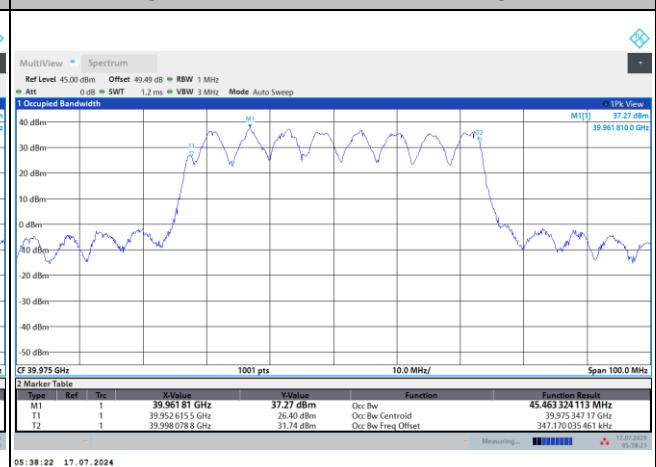
Middle Channel / 50MHz / 16QAM



Highest Channel / 50MHz / QPSK



Highest Channel / 50MHz / 16QAM

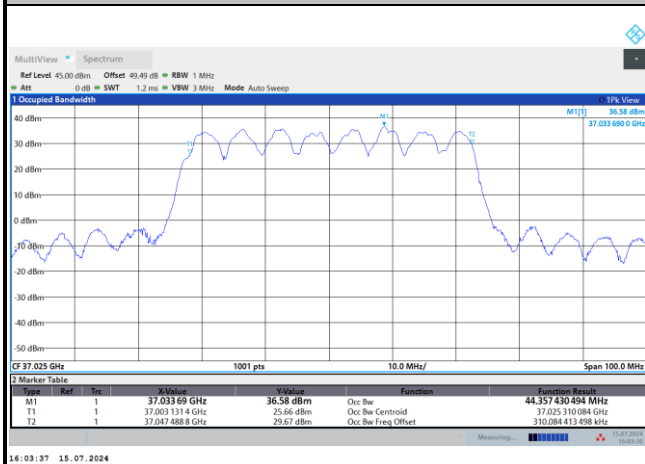




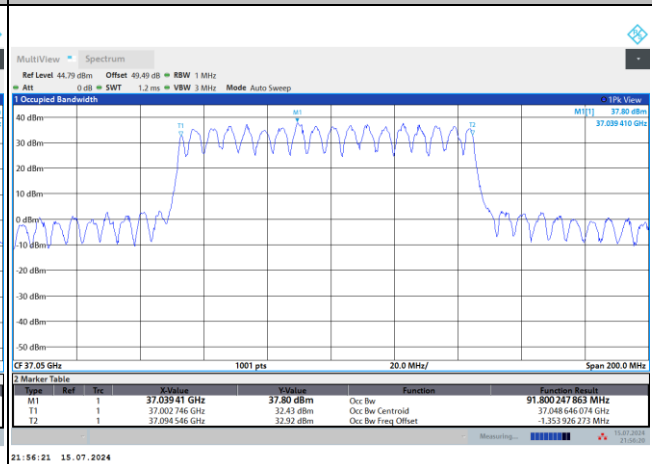
DFT-s-OFDM Module 1

NR Band n260

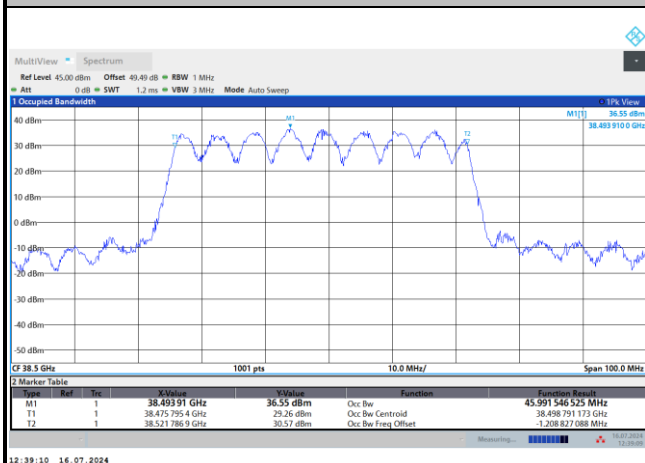
Lowest Channel / 50MHz / 64QAM



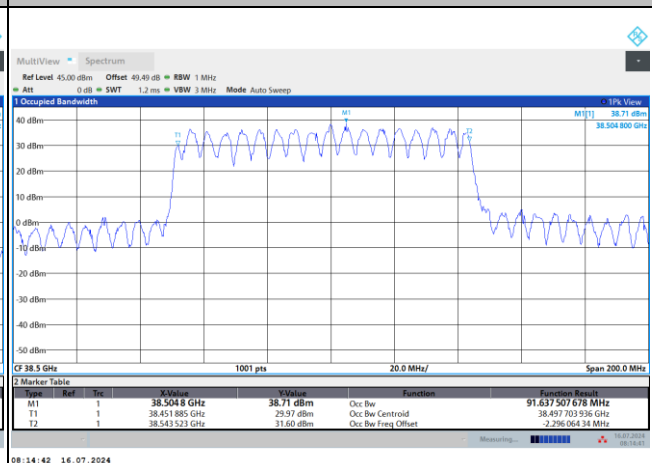
Lowest Channel / 100MHz / QPSK



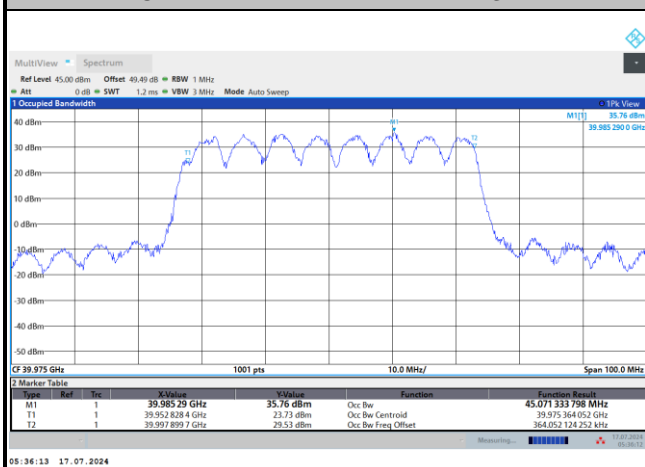
Middle Channel / 50MHz / 64QAM



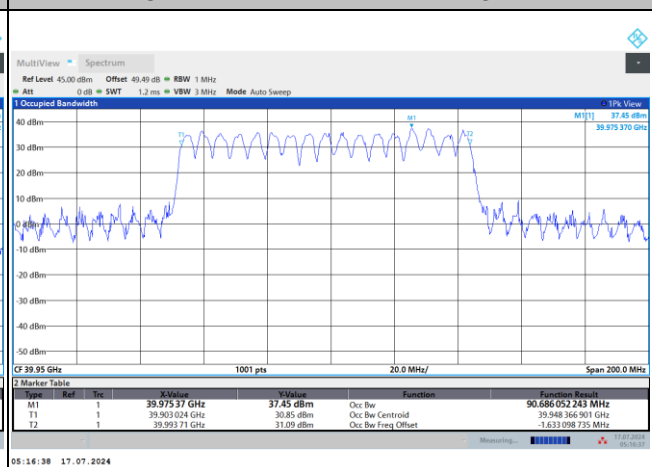
Middle Channel / 100MHz / QPSK



Highest Channel / 50MHz / 64QAM

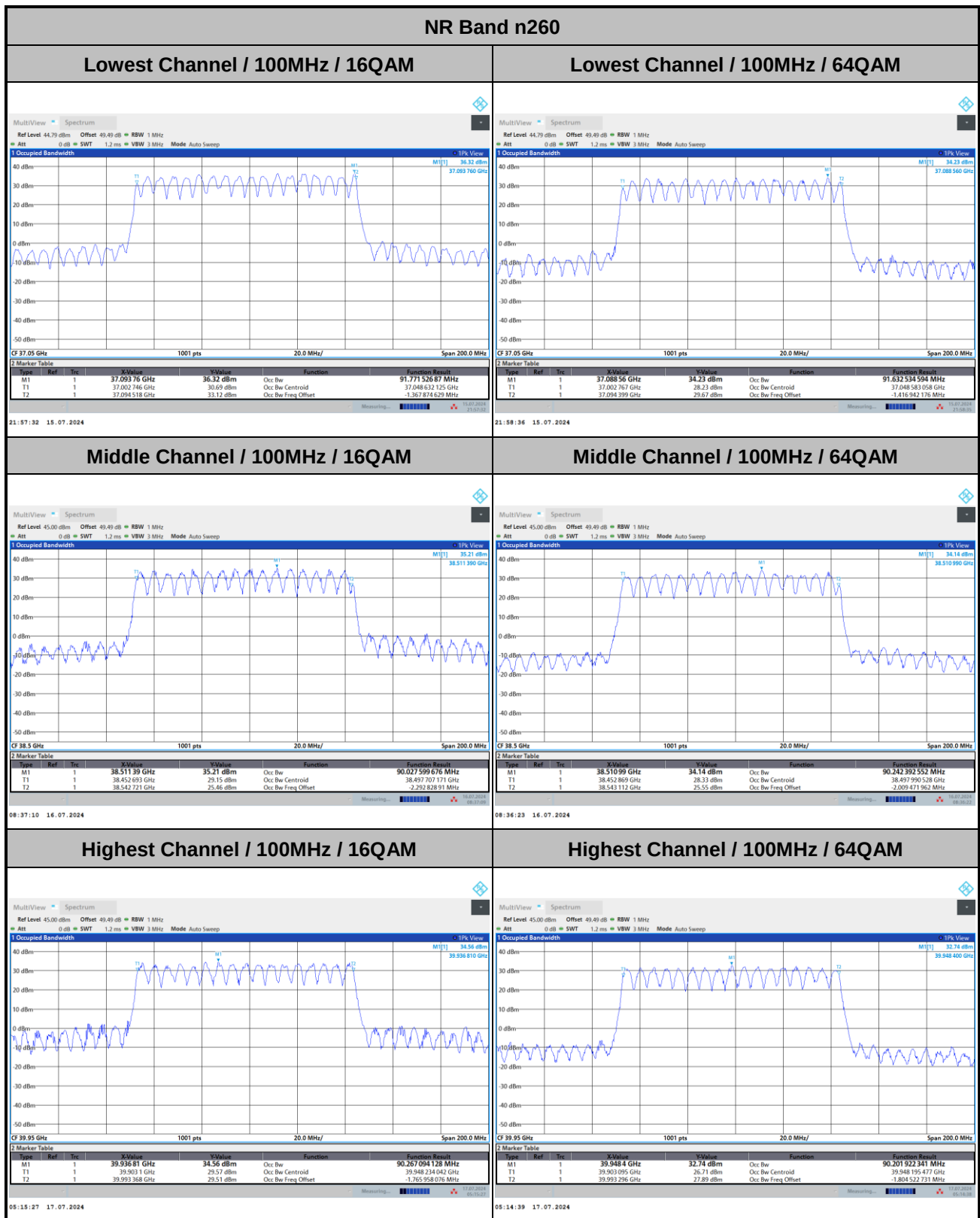


Highest Channel / 100MHz / QPSK





DFT-s-OFDM Module 1

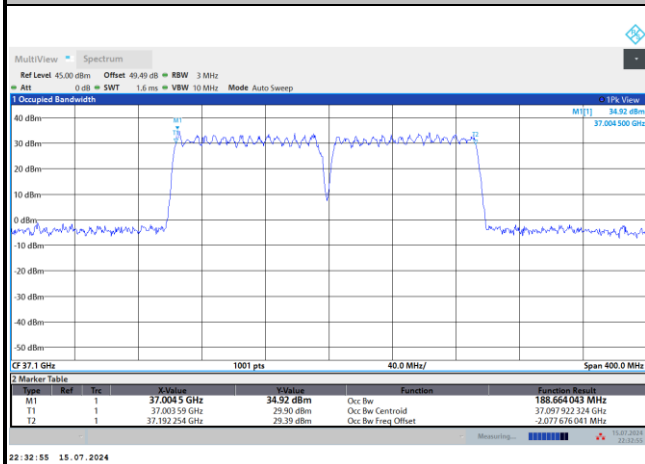




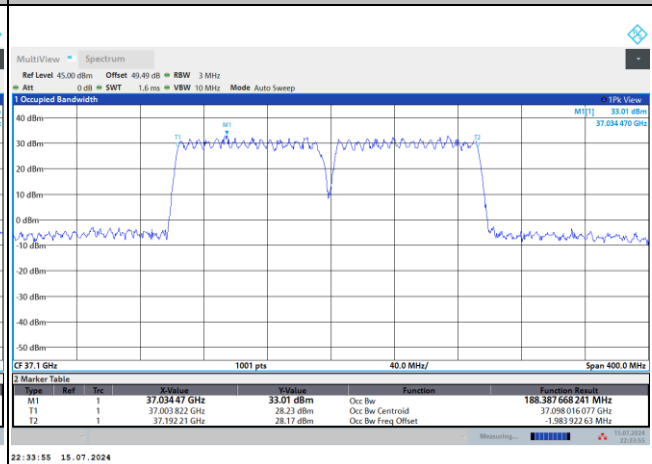
DFT-s-OFDM Module 1

NR Band n260

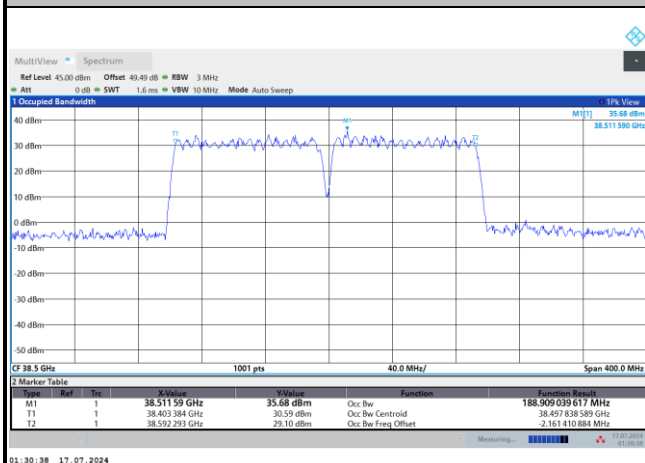
Lowest Channel / 200MHz / QPSK



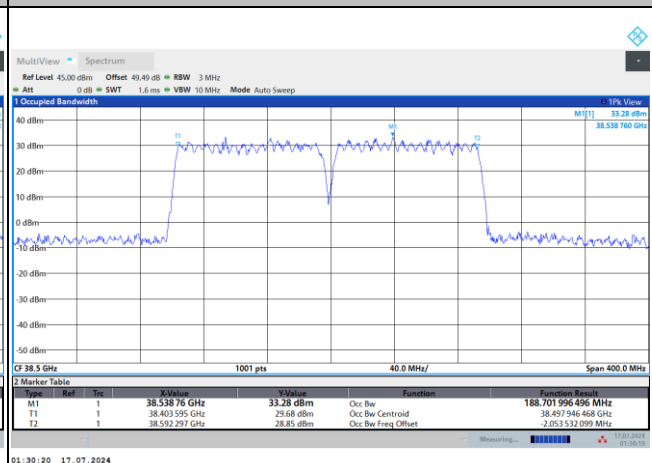
Lowest Channel / 200MHz / 16QAM



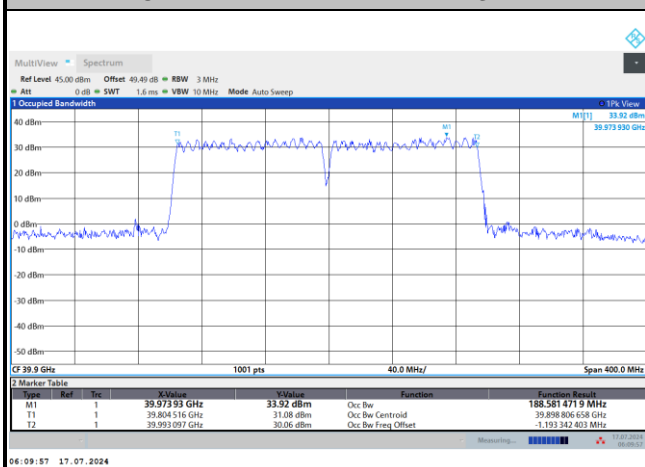
Middle Channel / 200MHz / QPSK



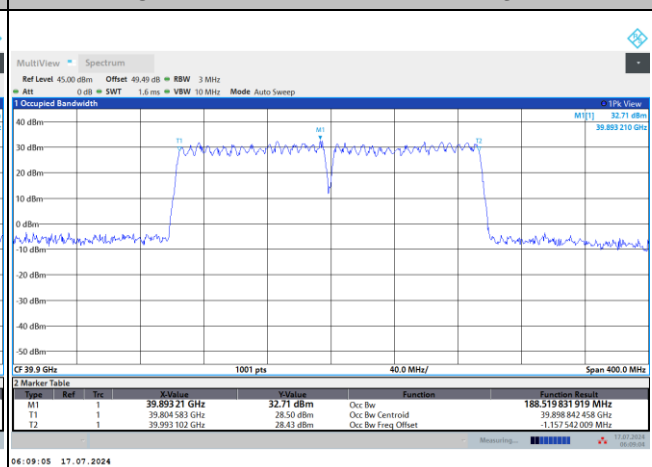
Middle Channel / 200MHz / 16QAM



Highest Channel / 200MHz / QPSK



Highest Channel / 200MHz / 16QAM

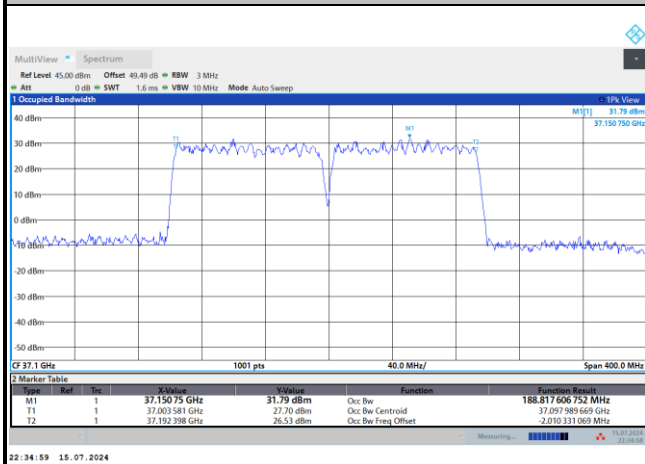




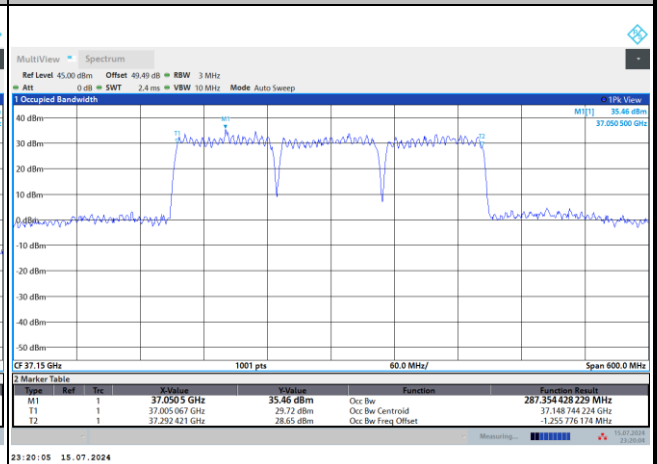
DFT-s-OFDM Module 1

NR Band n260

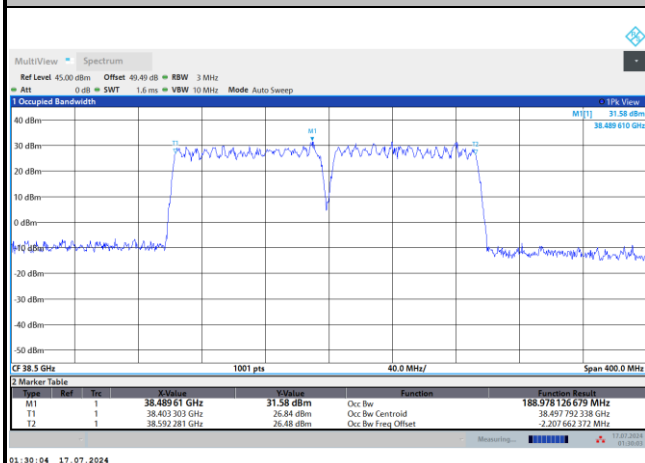
Lowest Channel / 200MHz / 64QAM



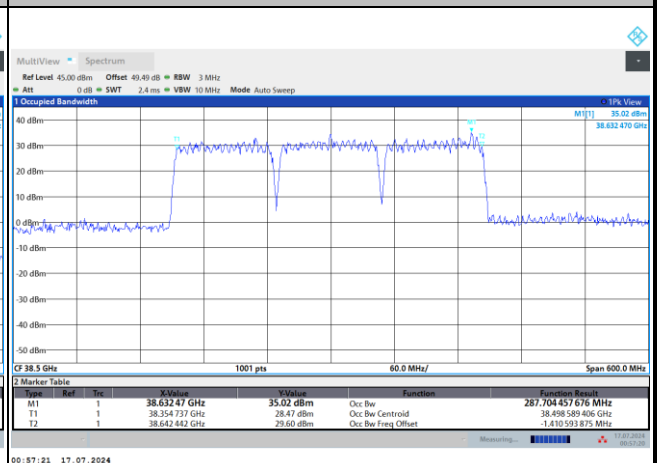
Lowest Channel / 300MHz / QPSK



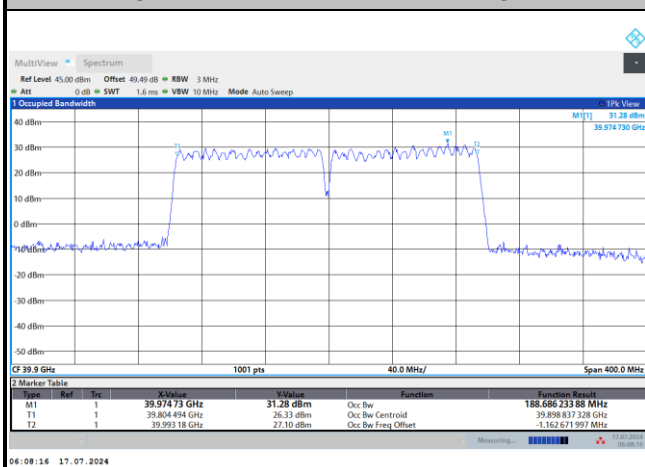
Middle Channel / 200MHz / 64QAM



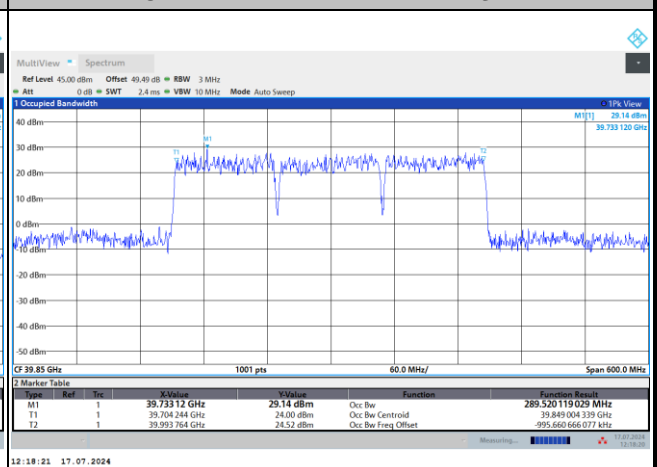
Middle Channel / 300MHz / QPSK



Highest Channel / 200MHz / 64QAM



Highest Channel / 300MHz / QPSK

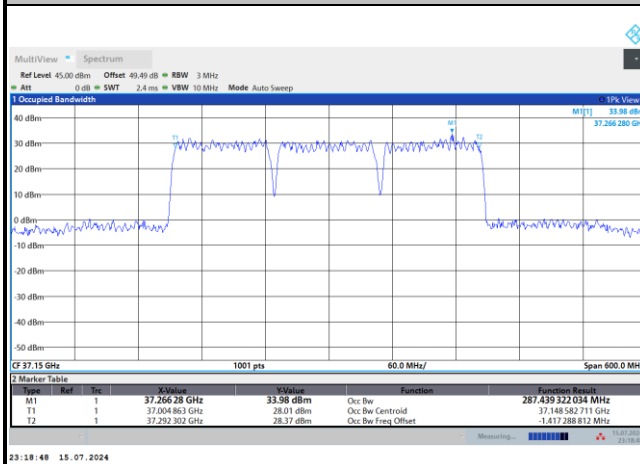




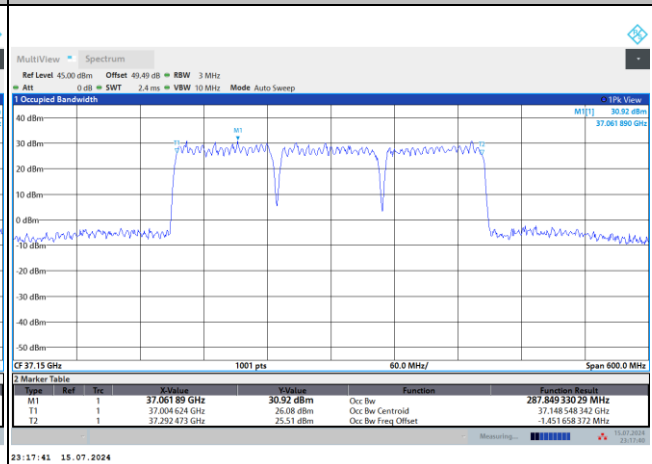
DFT-s-OFDM Module 1

NR Band n260

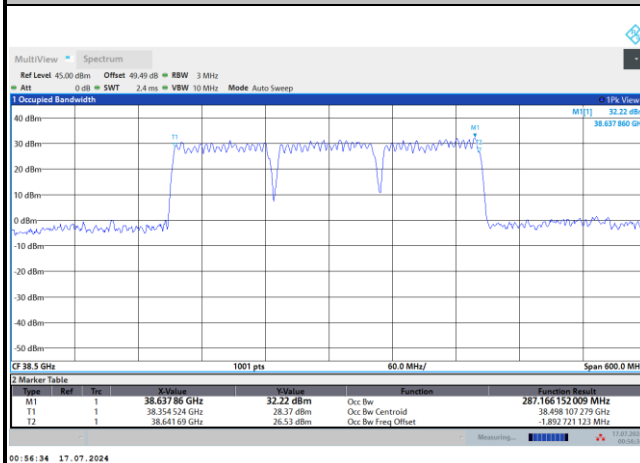
Lowest Channel / 300MHz / 16QAM



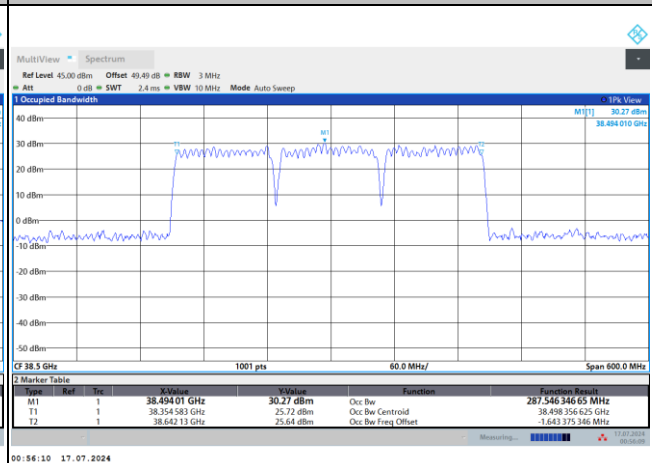
Lowest Channel / 300MHz / 64QAM



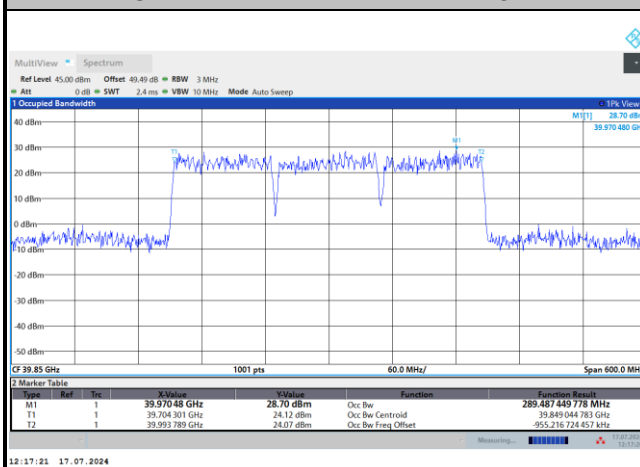
Middle Channel / 300MHz / 16QAM



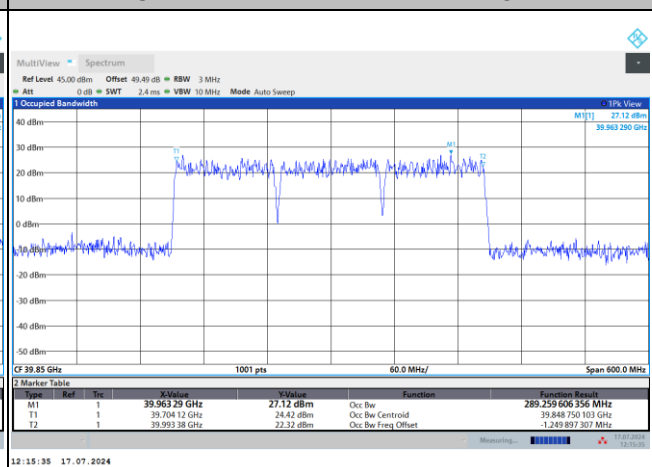
Middle Channel / 300MHz / 64QAM



Highest Channel / 300MHz / 16QAM



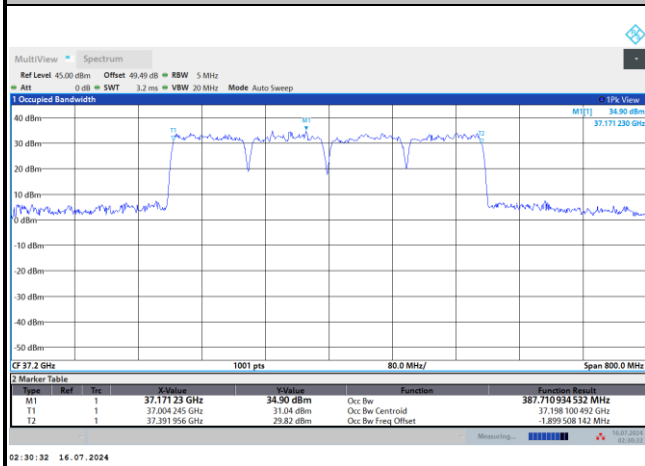
Highest Channel / 300MHz / 64QAM



DFT-s-OFDM Module 1

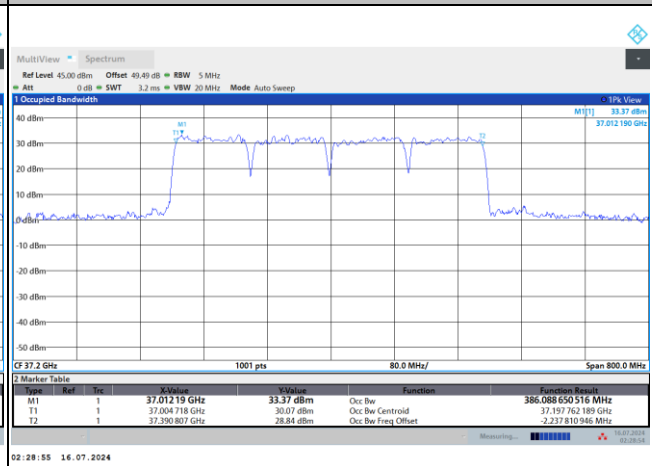
NR Band n260

Lowest Channel / 400MHz / QPSK



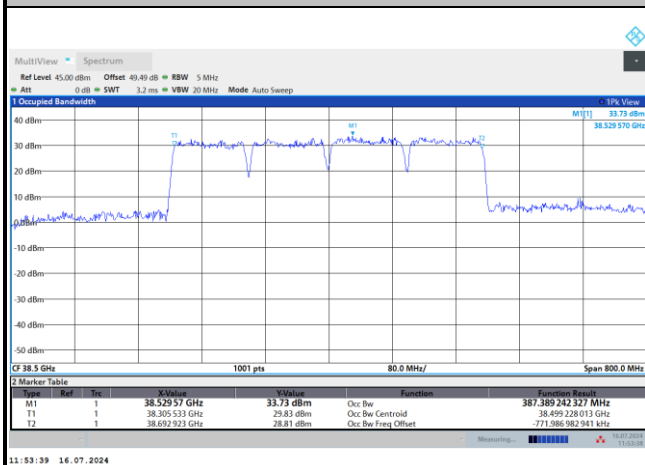
02:30:32 16.07.2024

Lowest Channel / 400MHz / 16QAM



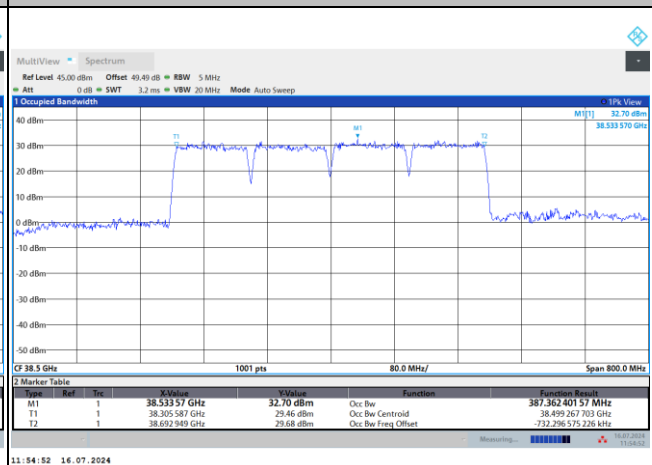
02:28:55 16.07.2024

Middle Channel / 400MHz / QPSK



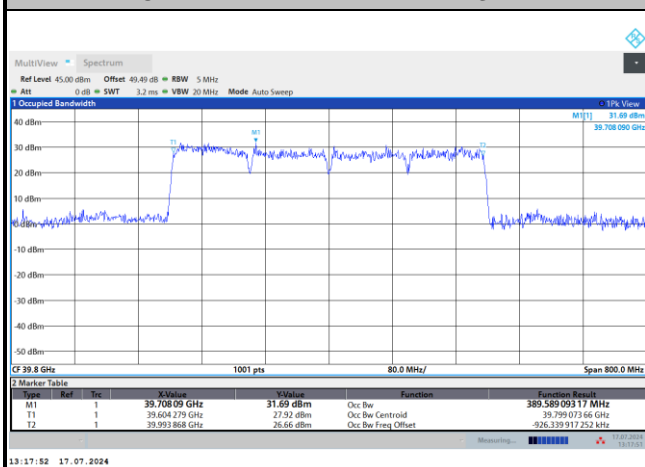
11:53:39 16.07.2024

Middle Channel / 400MHz / 16QAM



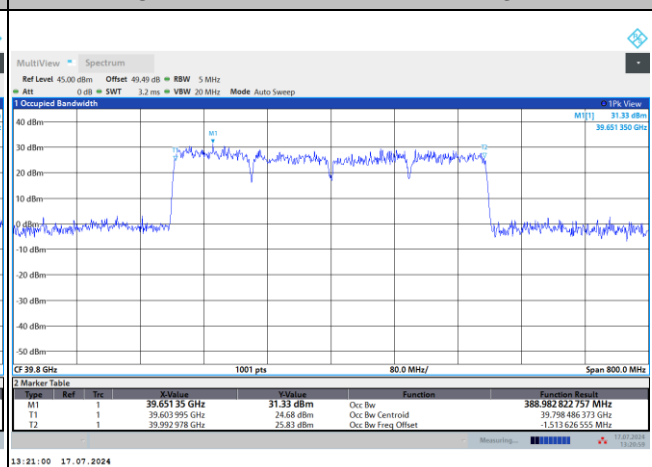
11:54:52 16.07.2024

Highest Channel / 400MHz / QPSK



13:17:52 17.07.2024

Highest Channel / 400MHz / 16QAM



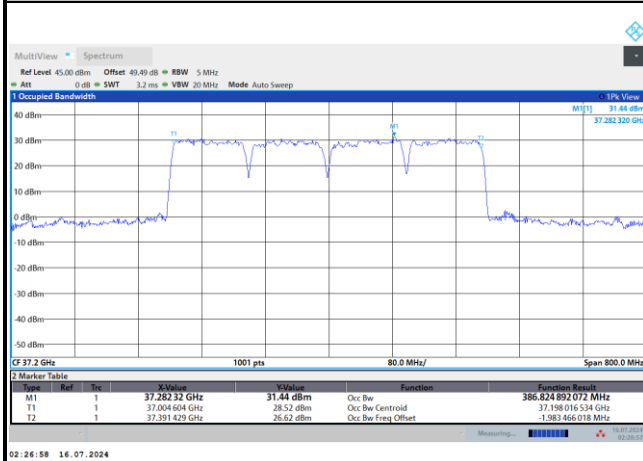
13:21:00 17.07.2024



DFT-s-OFDM Module 1

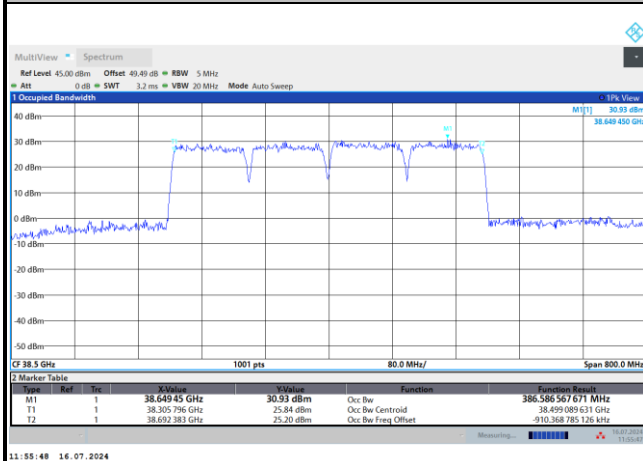
NR Band n260

Lowest Channel / 400MHz / 64QAM



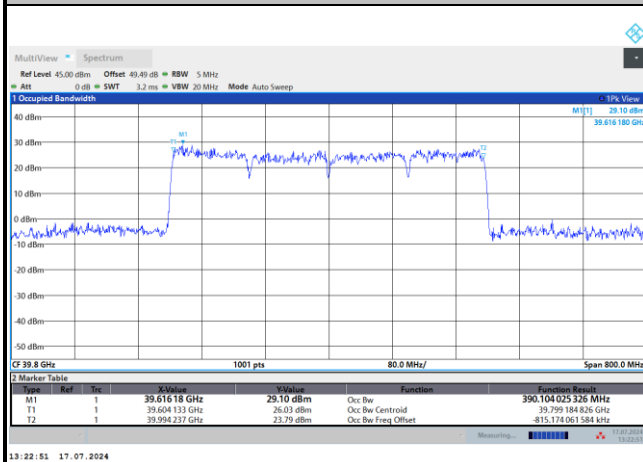
intentionally blank

Middle Channel / 400MHz / 64QAM



intentionally blank

Highest Channel / 400MHz / 64QAM



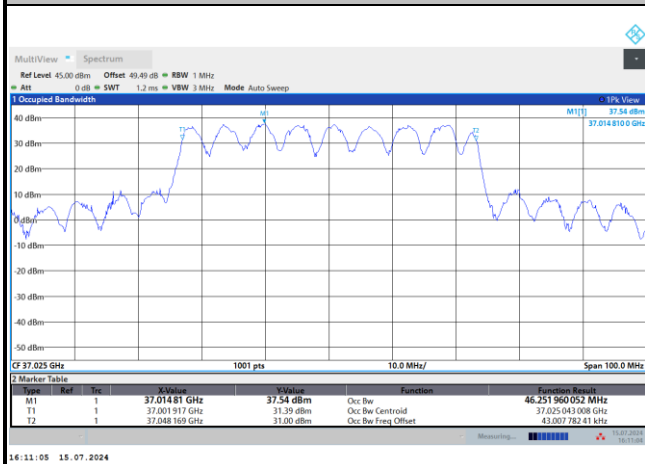
intentionally blank



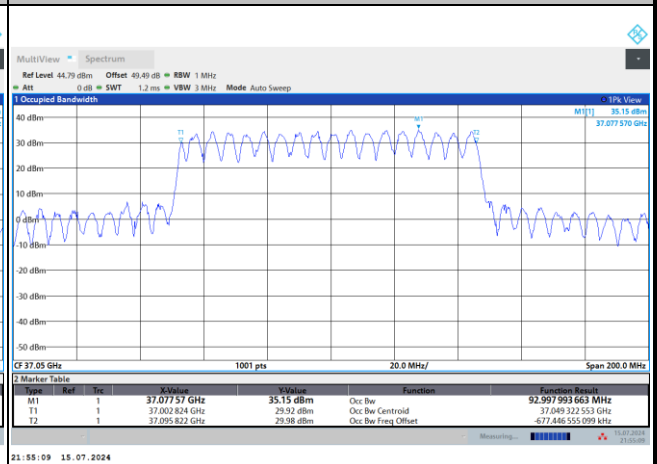
CP-OFDM Module 1

NR Band n260

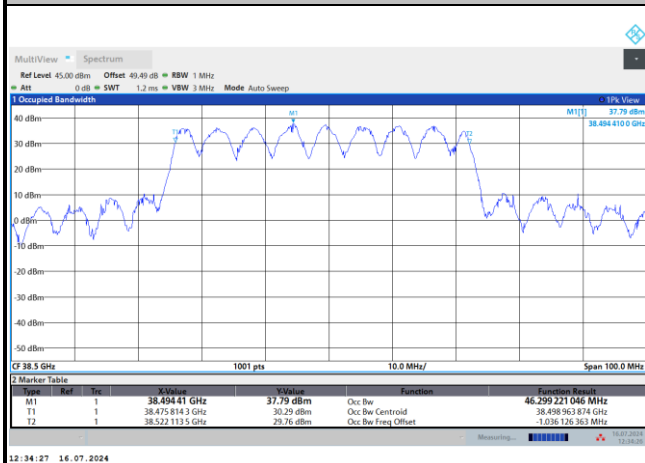
Lowest Channel / 50MHz / QPSK



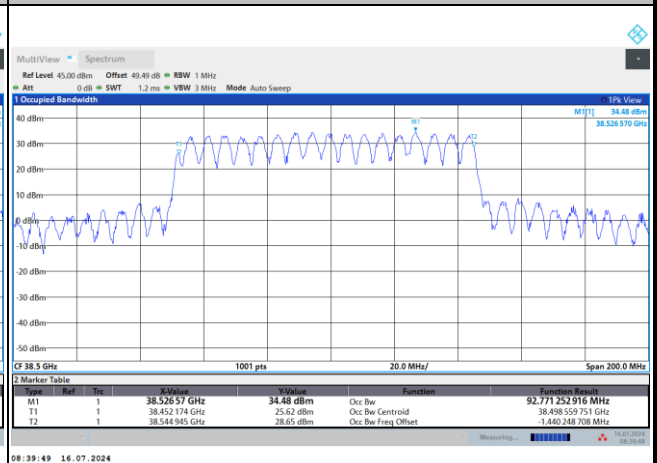
Lowest Channel / 100MHz / QPSK



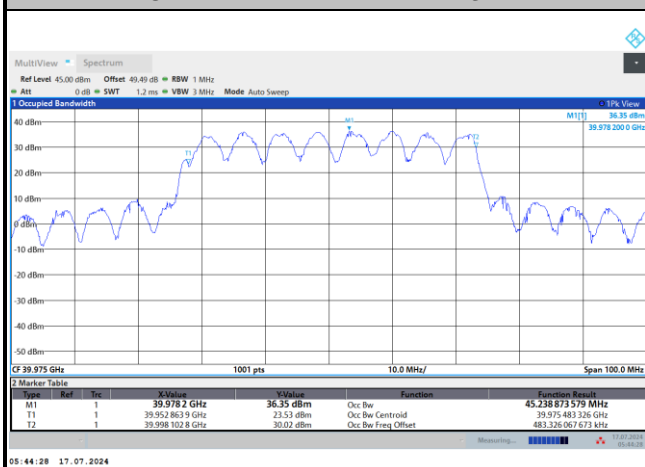
Middle Channel / 50MHz / QPSK



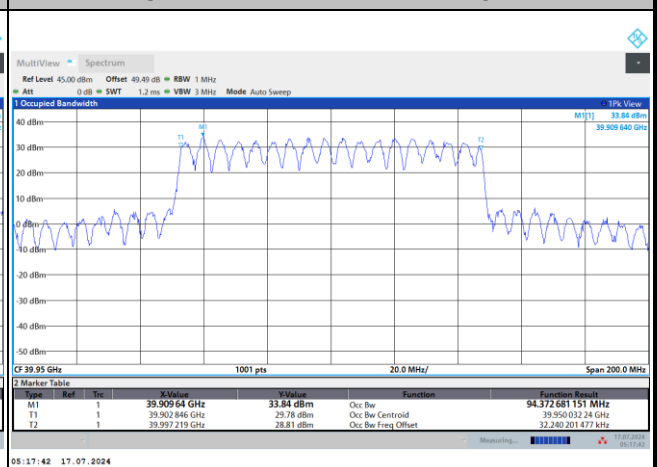
Middle Channel / 100MHz / QPSK



Highest Channel / 50MHz / QPSK



Highest Channel / 100MHz / QPSK

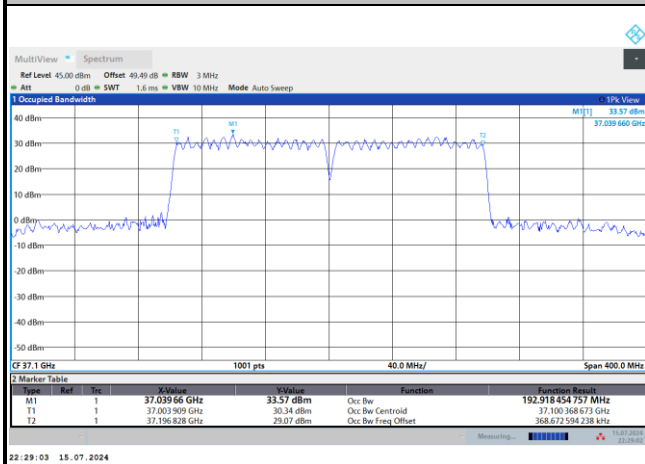




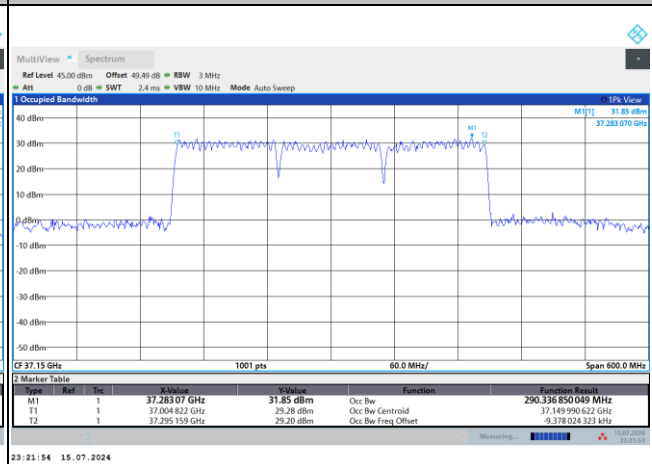
CP-OFDM Module 1

NR Band n260

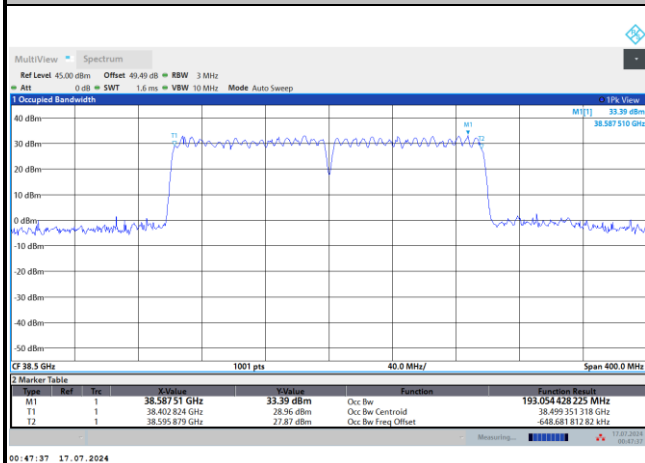
Lowest Channel / 200MHz / QPSK



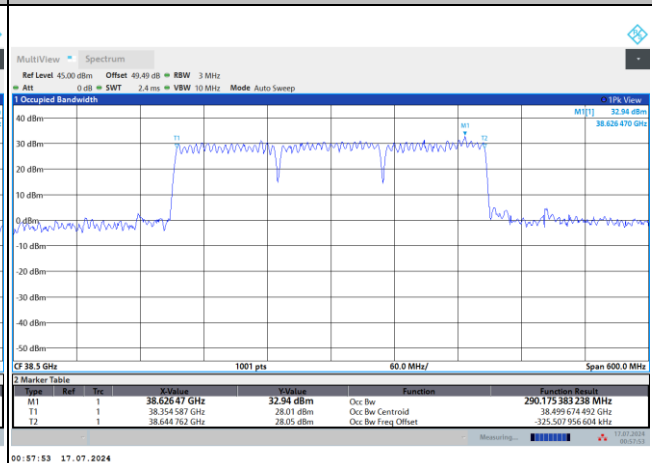
Lowest Channel / 300MHz / QPSK



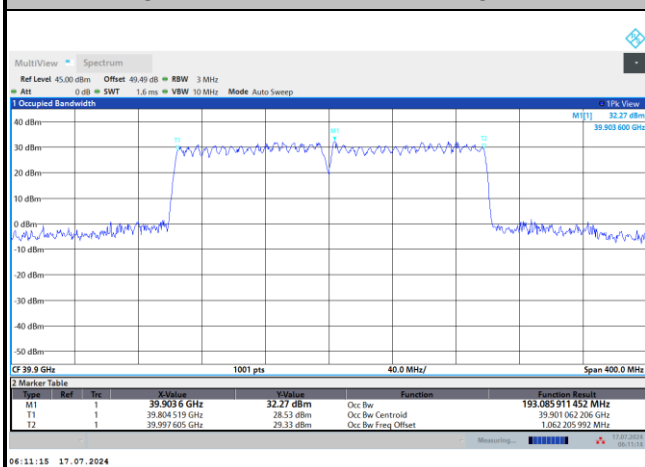
Middle Channel / 200MHz / QPSK



Middle Channel / 300MHz / QPSK



Highest Channel / 200MHz / QPSK



Highest Channel / 300MHz / QPSK

